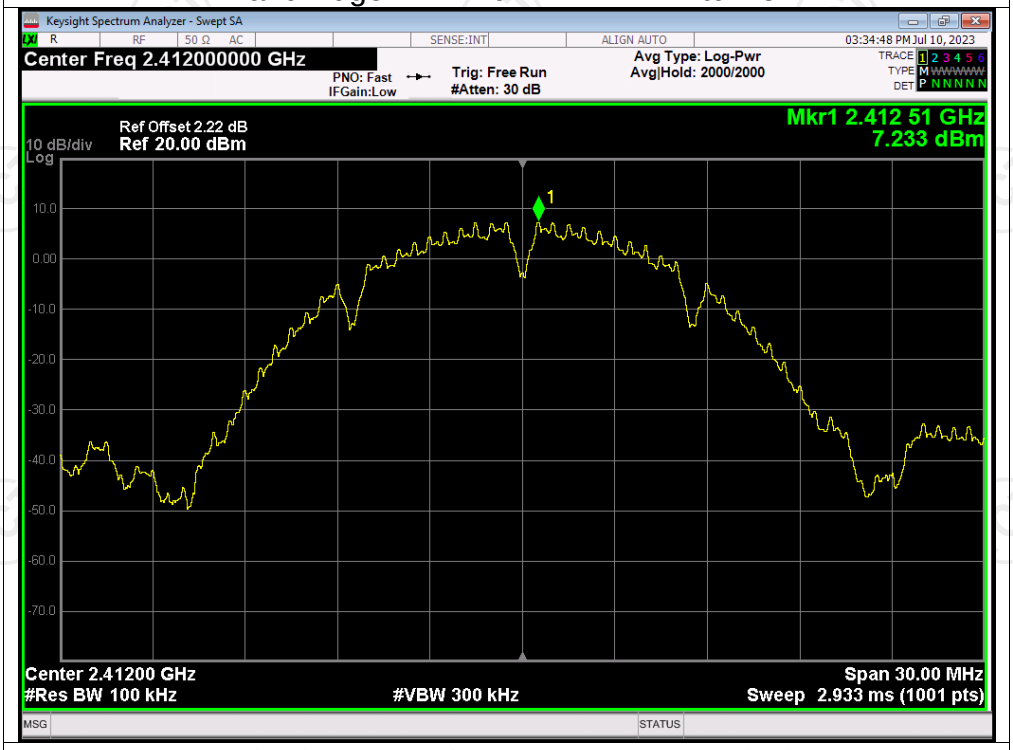
Band Edge

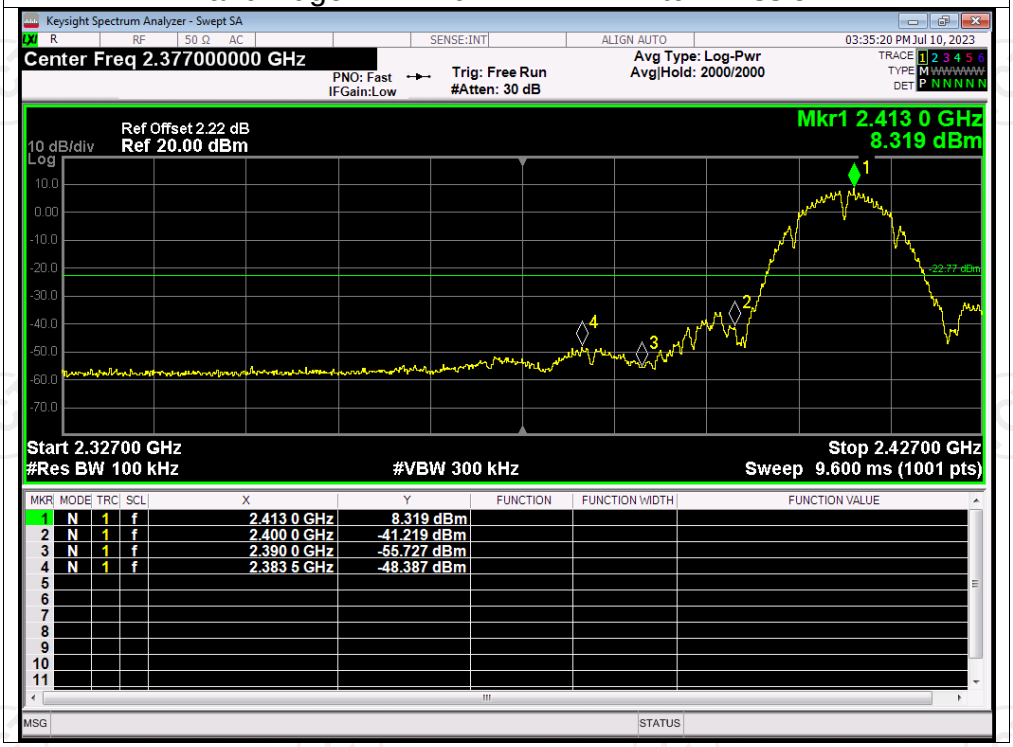
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-55.61	-30	Pass
NVNT	b	2462	Ant0	-56.91	-30	Pass
NVNT	g	2412	Ant0	-42.78	-30	Pass
NVNT	g	2462	Ant0	-50.47	-30	Pass
NVNT	n20	2412	Ant0	-42.66	-30	Pass
NVNT	n20	2462	Ant0	-48.70	-30	Pass
NVNT	n40	2422	Ant0	-37.20	-30	Pass
NVNT	n40	2452	Ant0	-46.05	-30	Pass
NVNT	ax20	2412	Ant0	-49.90	-30	Pass
NVNT	ax20	2462	Ant0	-51.00	-30	Pass
NVNT	ax40	2422	Ant0	-47.11	-30	Pass
NVNT	ax40	2452	Ant0	-46.69	-30	Pass

Test Graphs

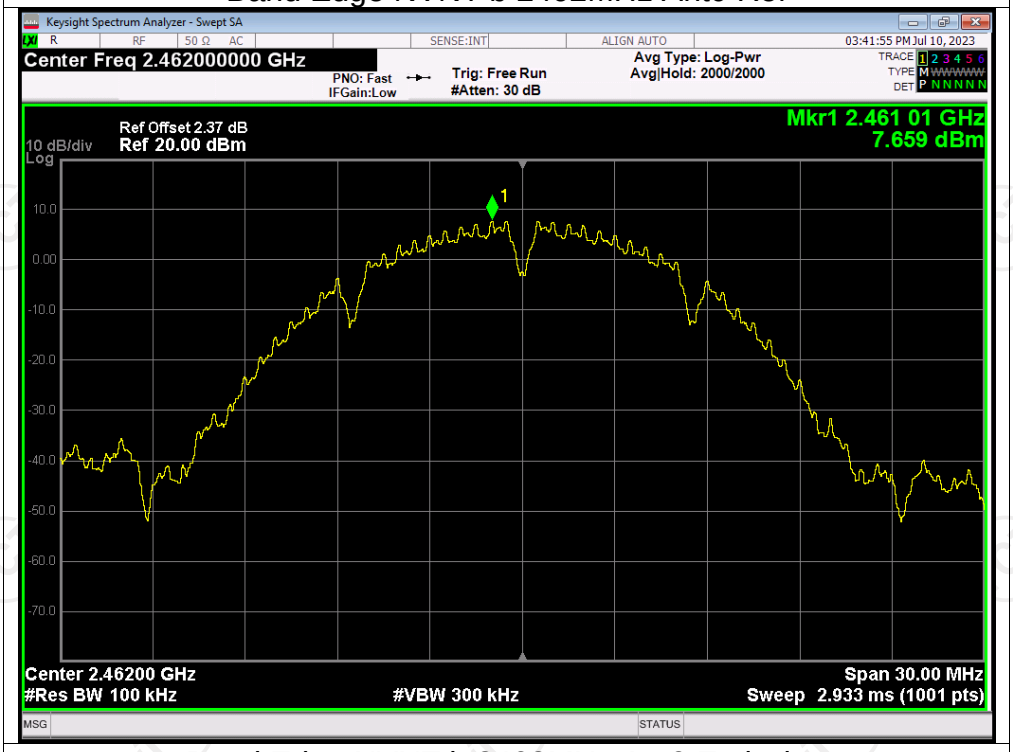
Band Edge NVNT b 2412MHz Ant0 Ref



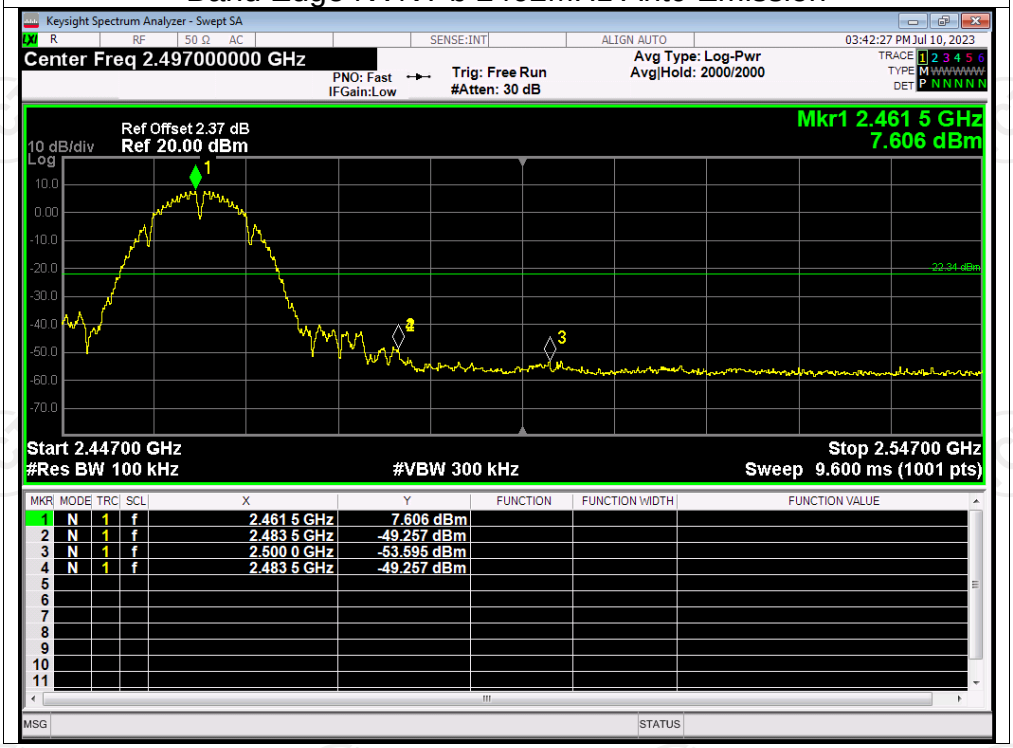
Band Edge NVNT b 2412MHz Ant0 Emission



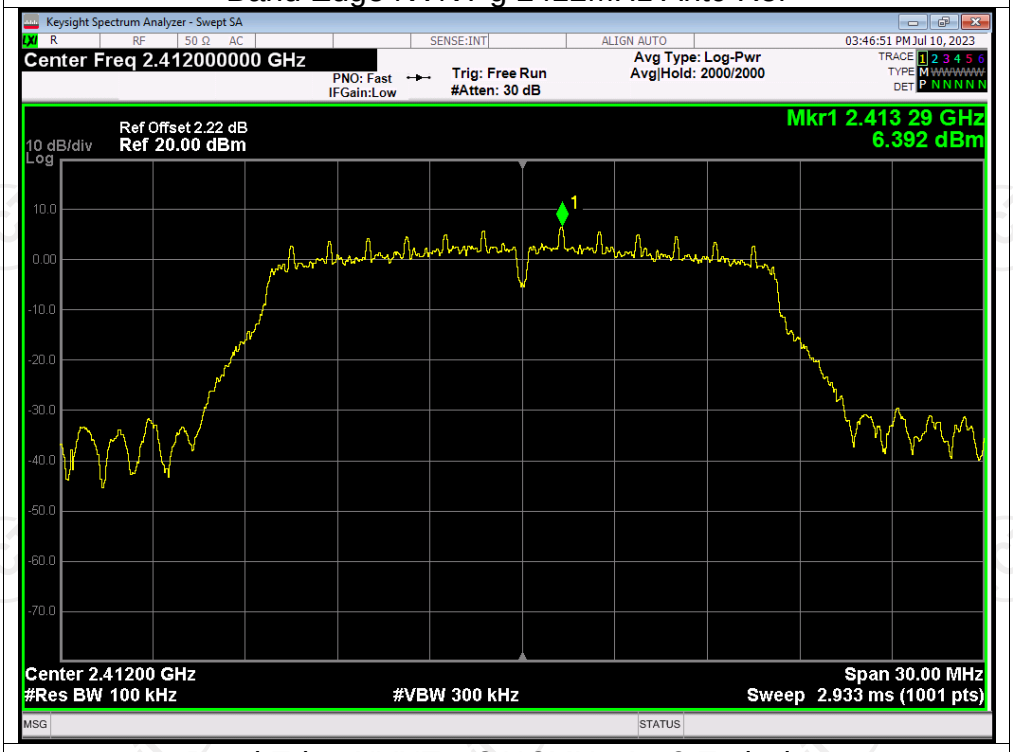
Band Edge NVNT b 2462MHz Ant0 Ref



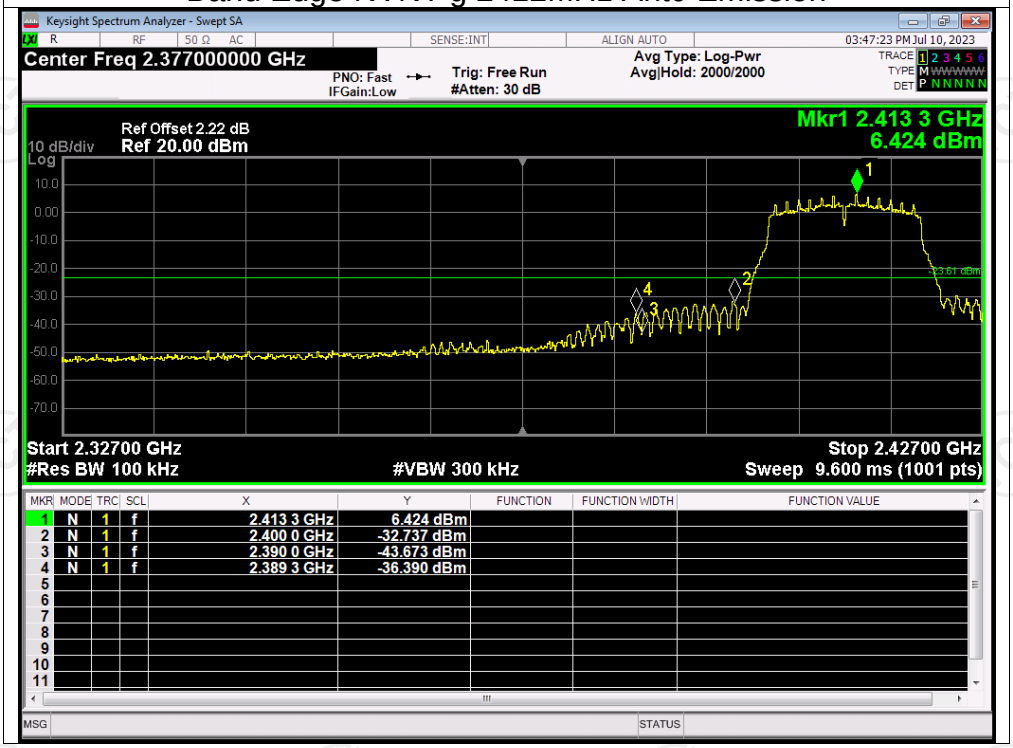
Band Edge NVNT b 2462MHz Ant0 Emission



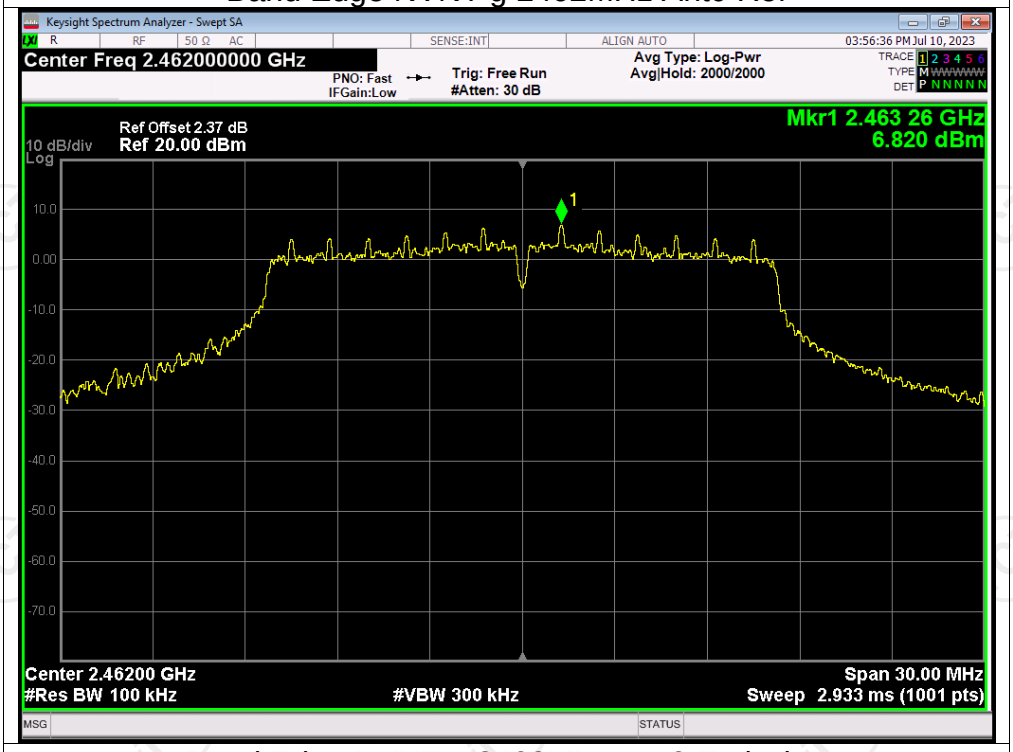
Band Edge NVNT g 2412MHz Ant0 Ref



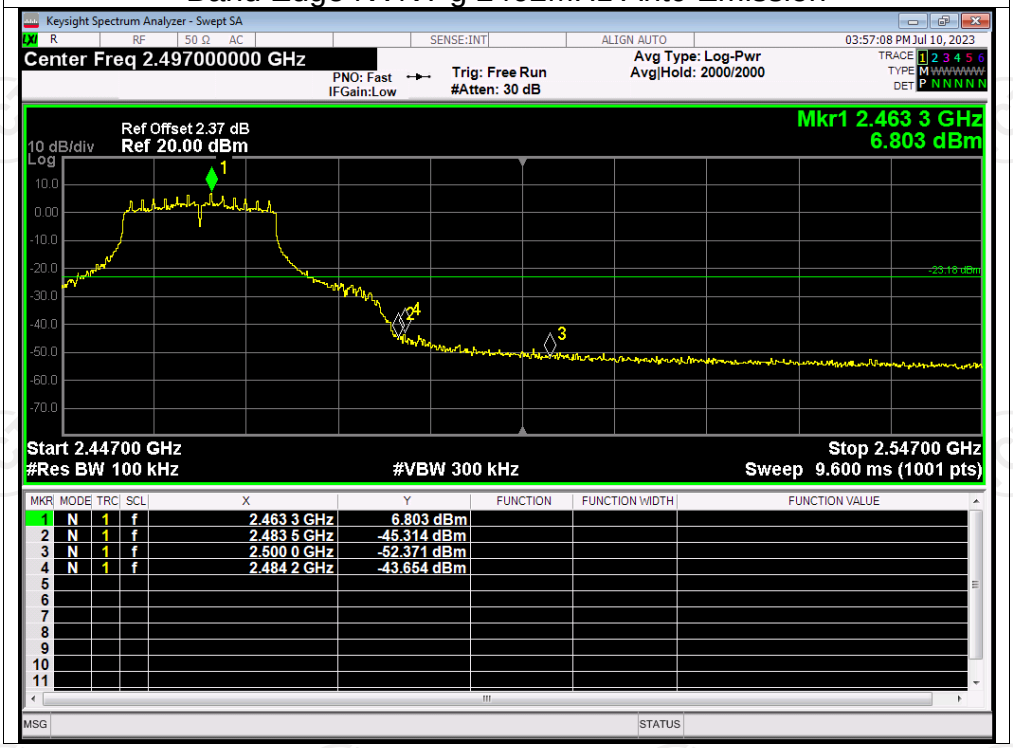
Band Edge NVNT g 2412MHz Ant0 Emission



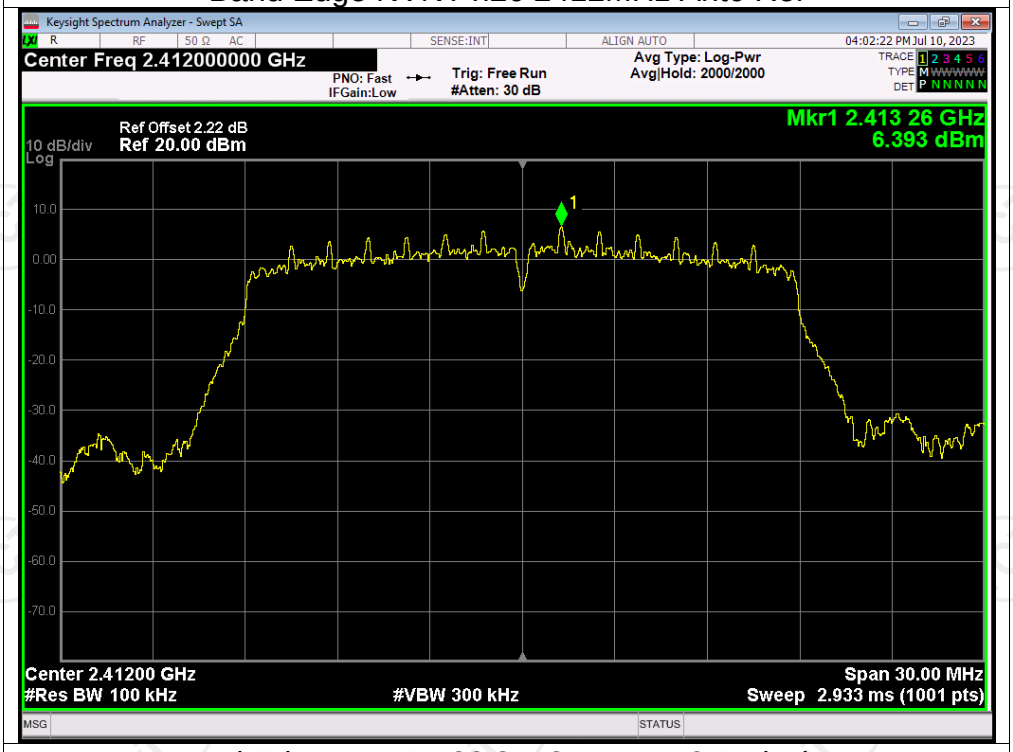
Band Edge NVNT g 2462MHz Ant0 Ref



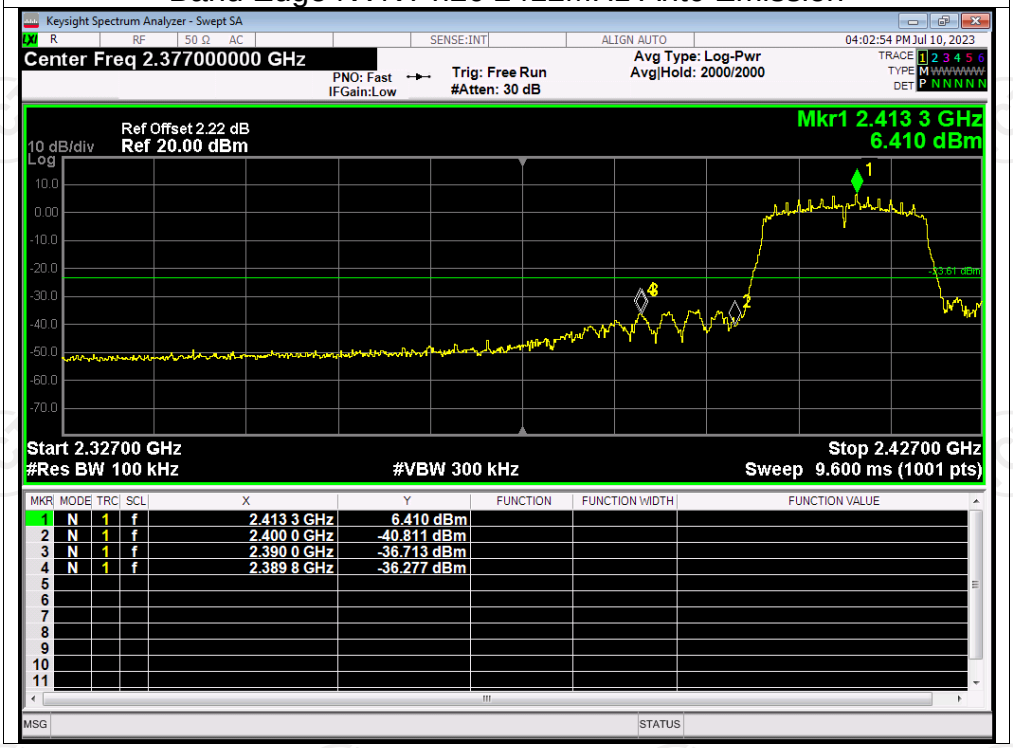
Band Edge NVNT g 2462MHz Ant0 Emission



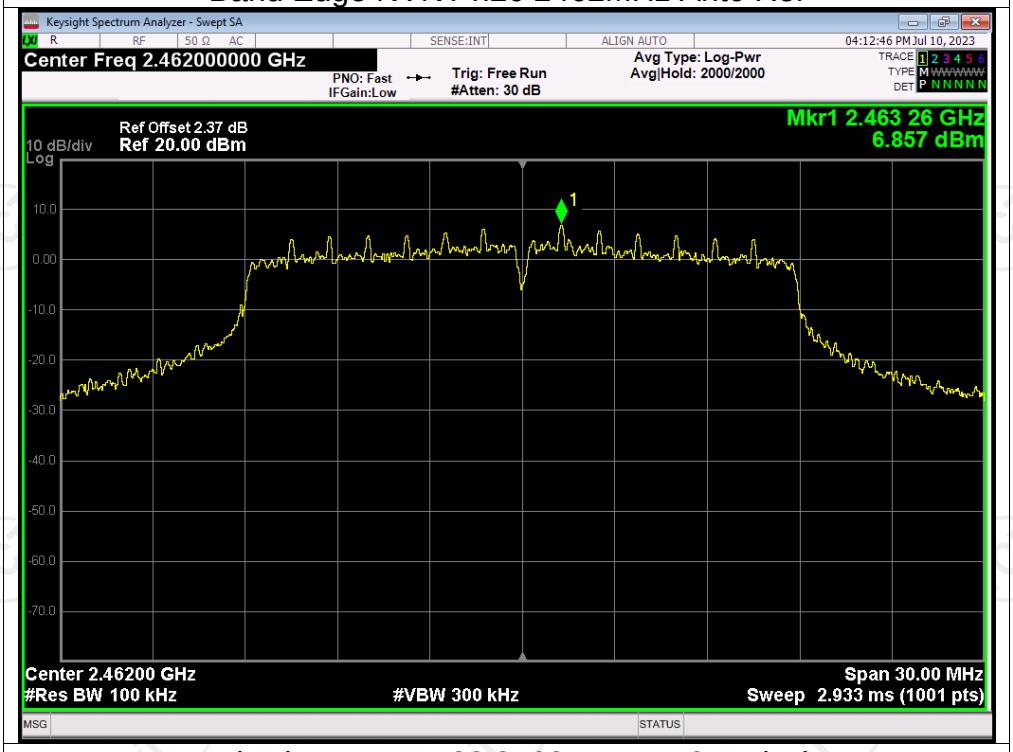
Band Edge NVNT n20 2412MHz Ant0 Ref



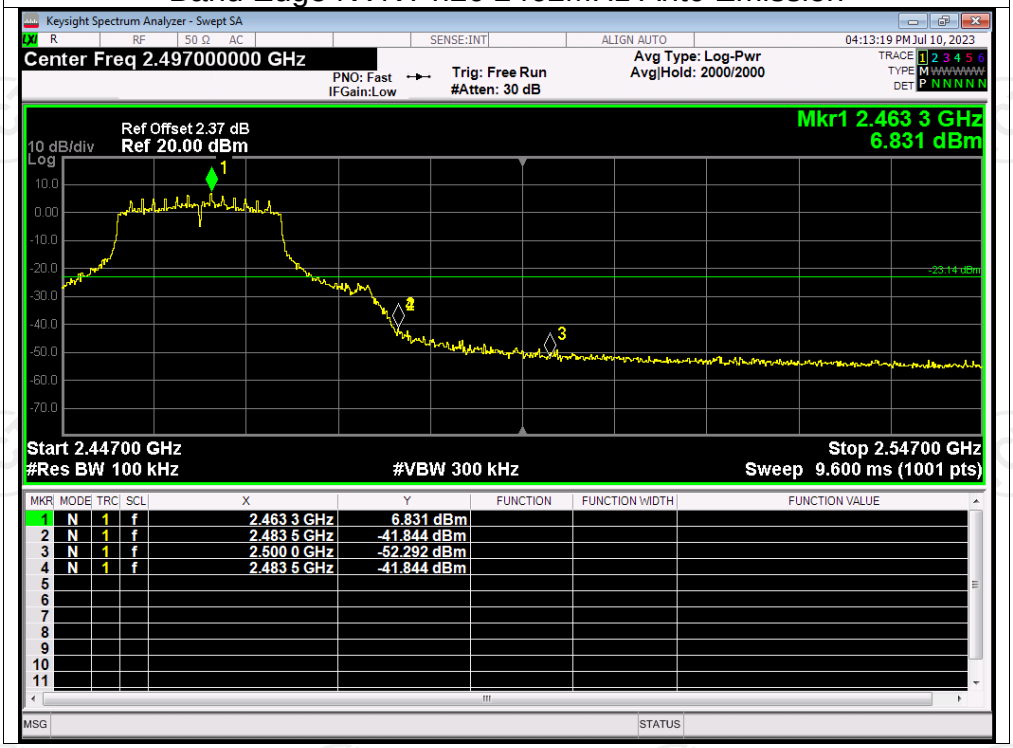
Band Edge NVNT n20 2412MHz Ant0 Emission



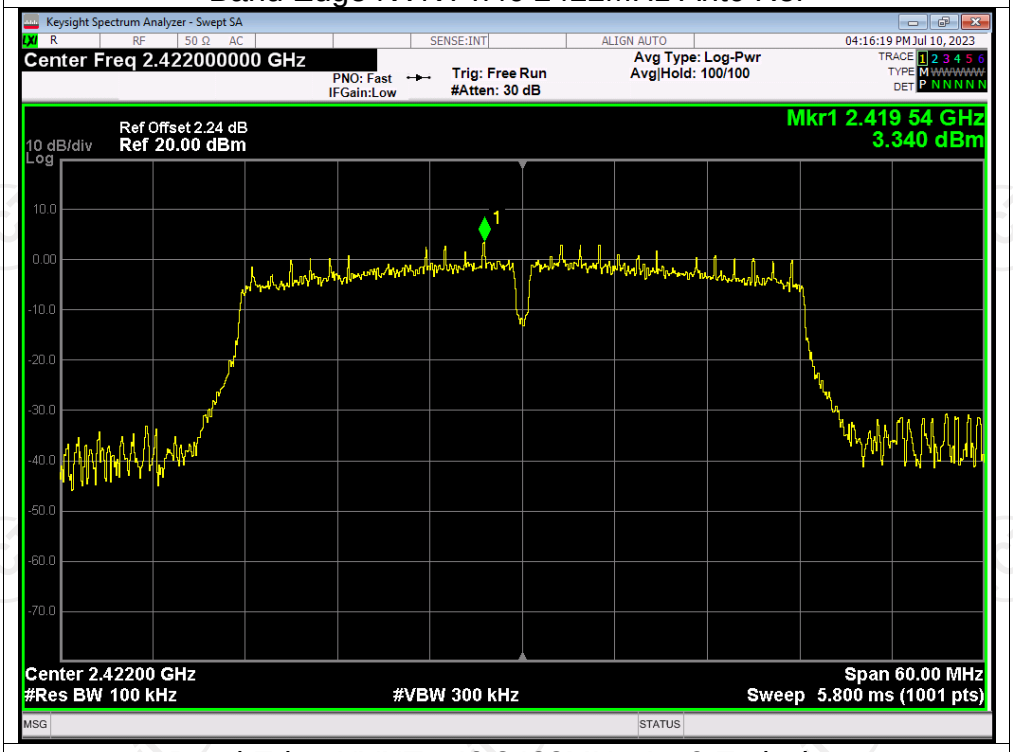
Band Edge NVNT n20 2462MHz Ant0 Ref



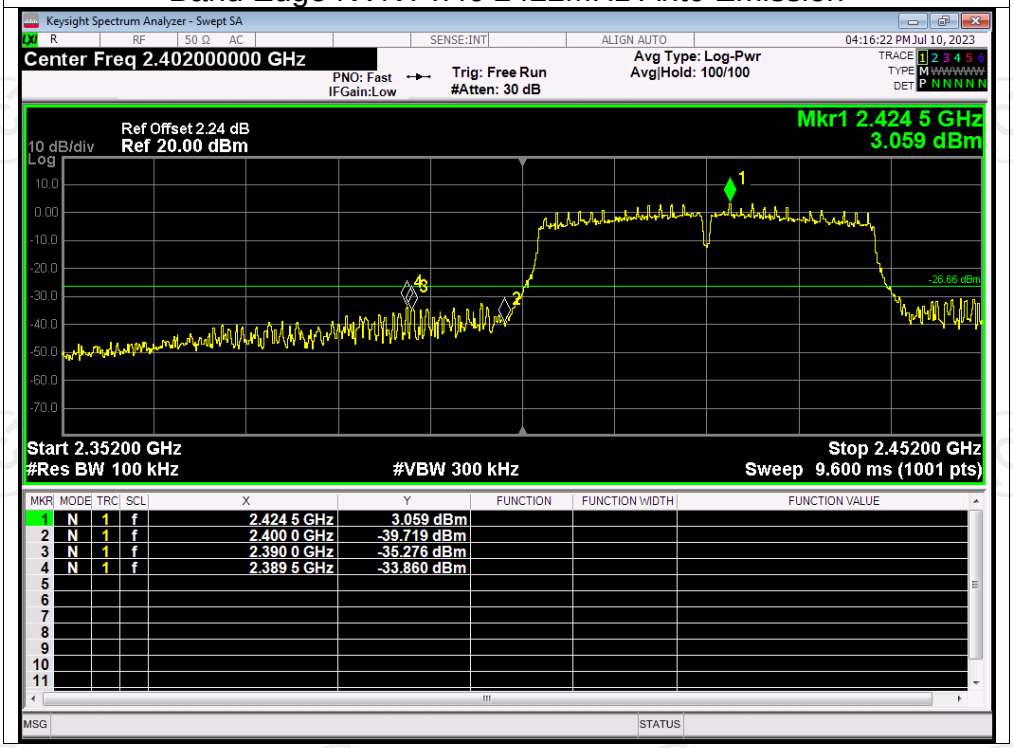
Band Edge NVNT n20 2462MHz Ant0 Emission



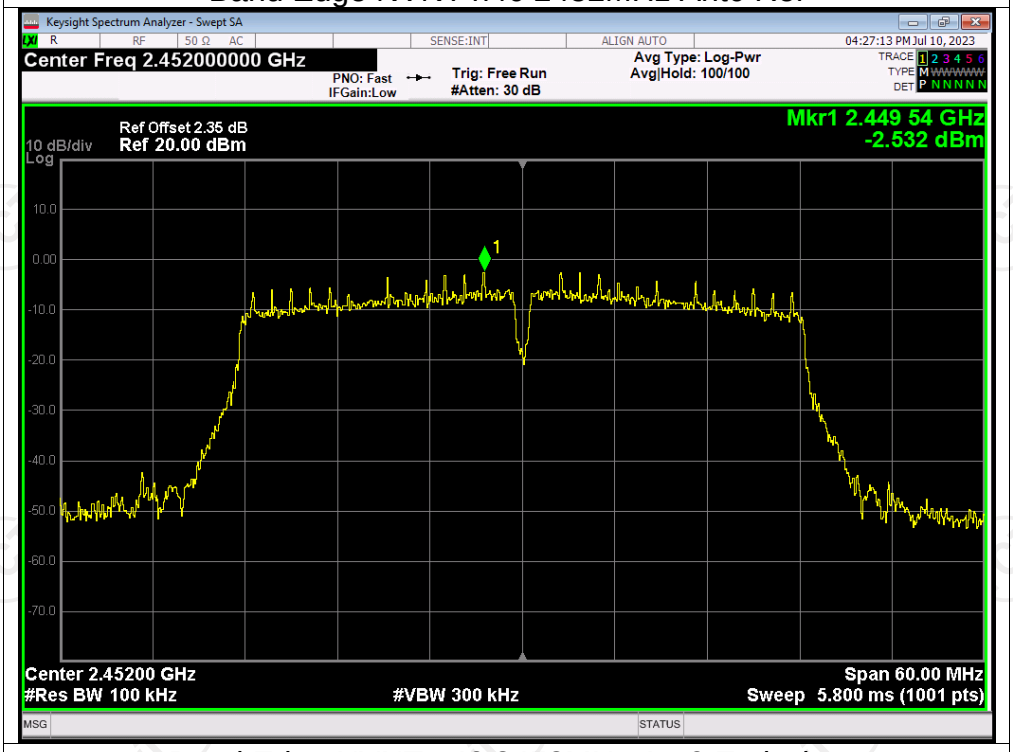
Band Edge NVNT n40 2422MHz Ant0 Ref



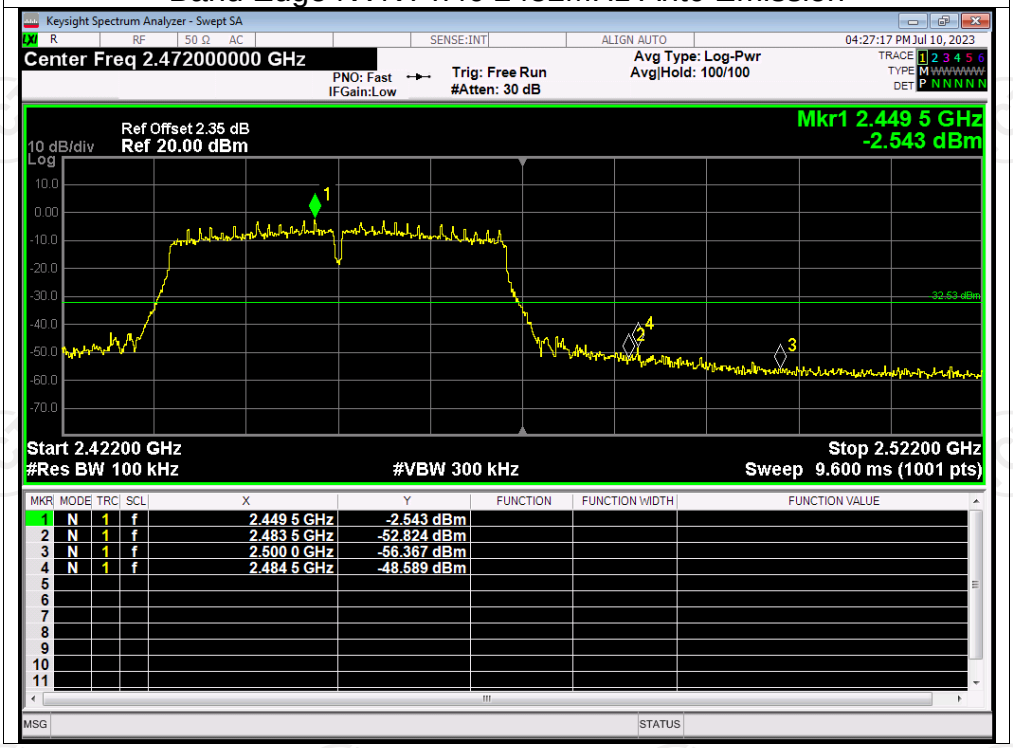
Band Edge NVNT n40 2422MHz Ant0 Emission



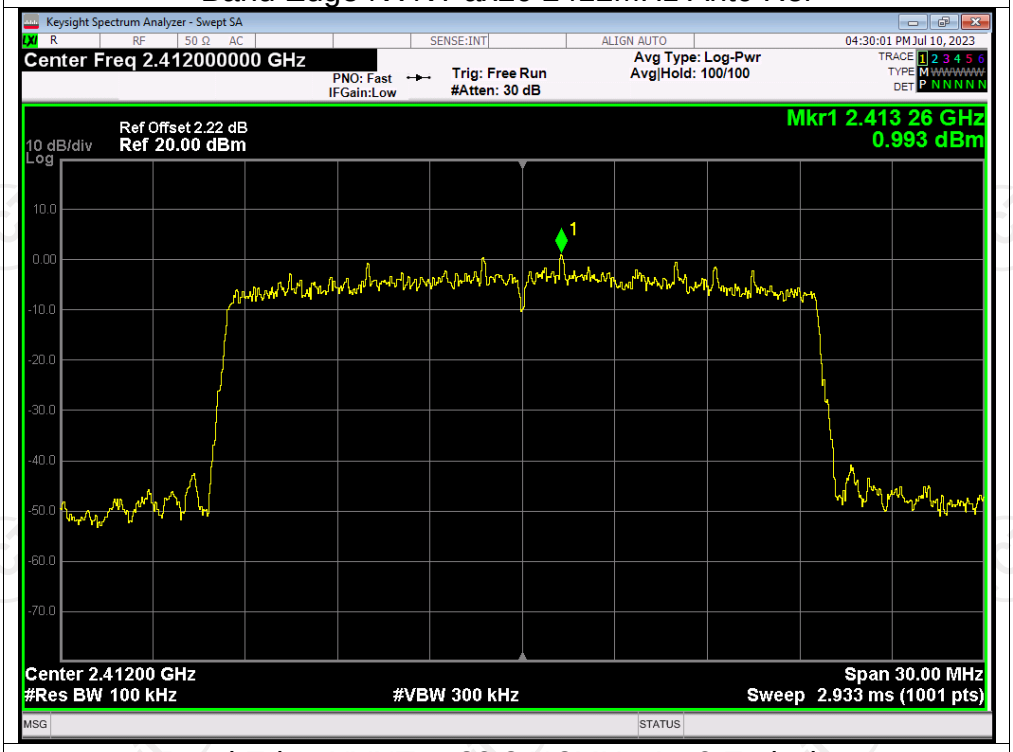
Band Edge NVNT n40 2452MHz Ant0 Ref



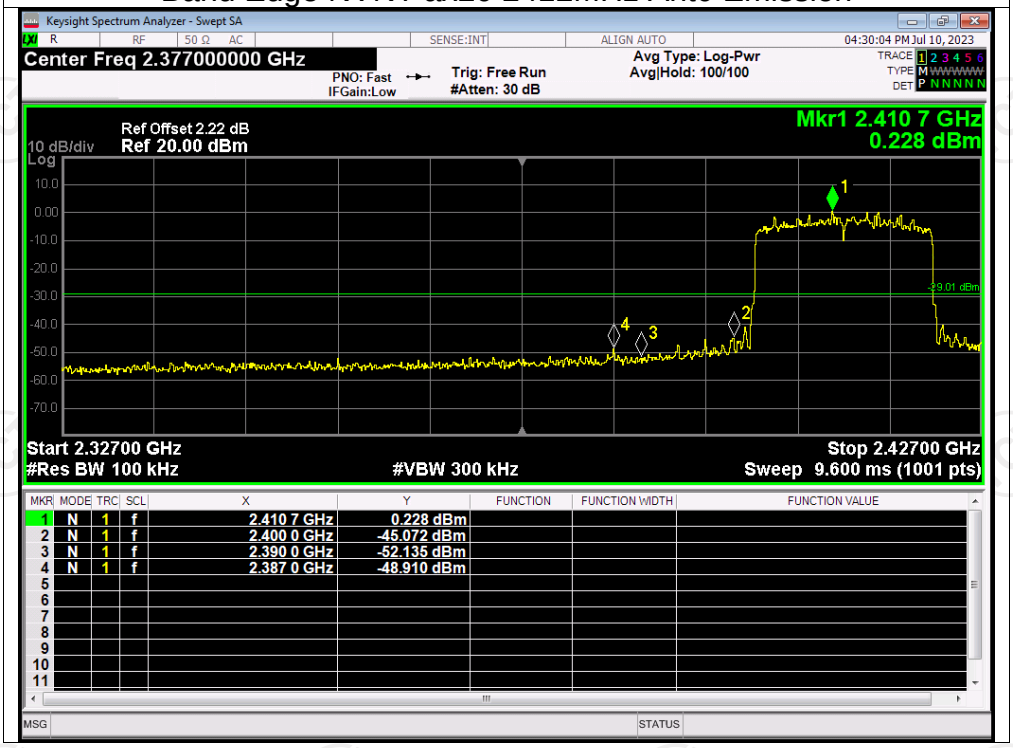
Band Edge NVNT n40 2452MHz Ant0 Emission



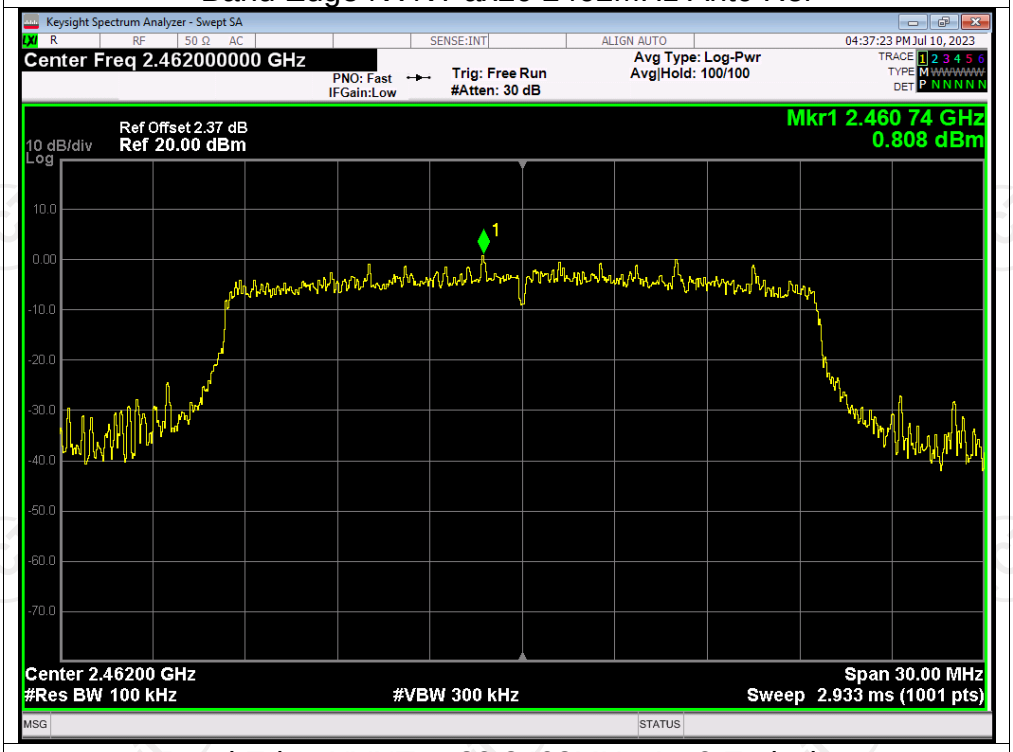
Band Edge NVNT ax20 2412MHz Ant0 Ref



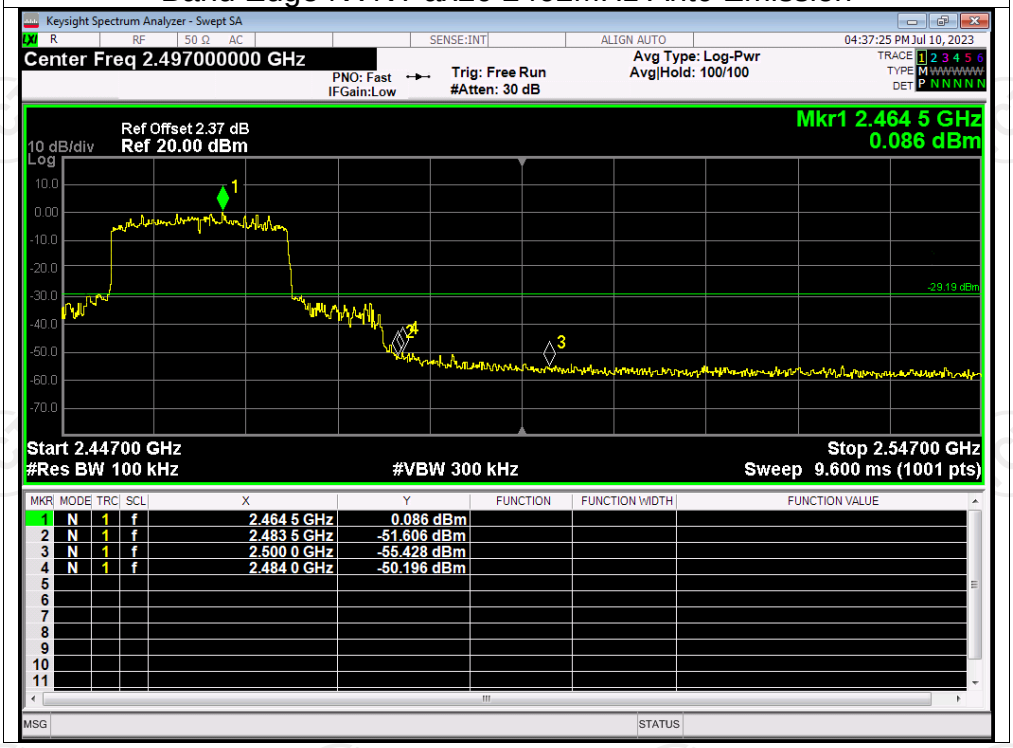
Band Edge NVNT ax20 2412MHz Ant0 Emission



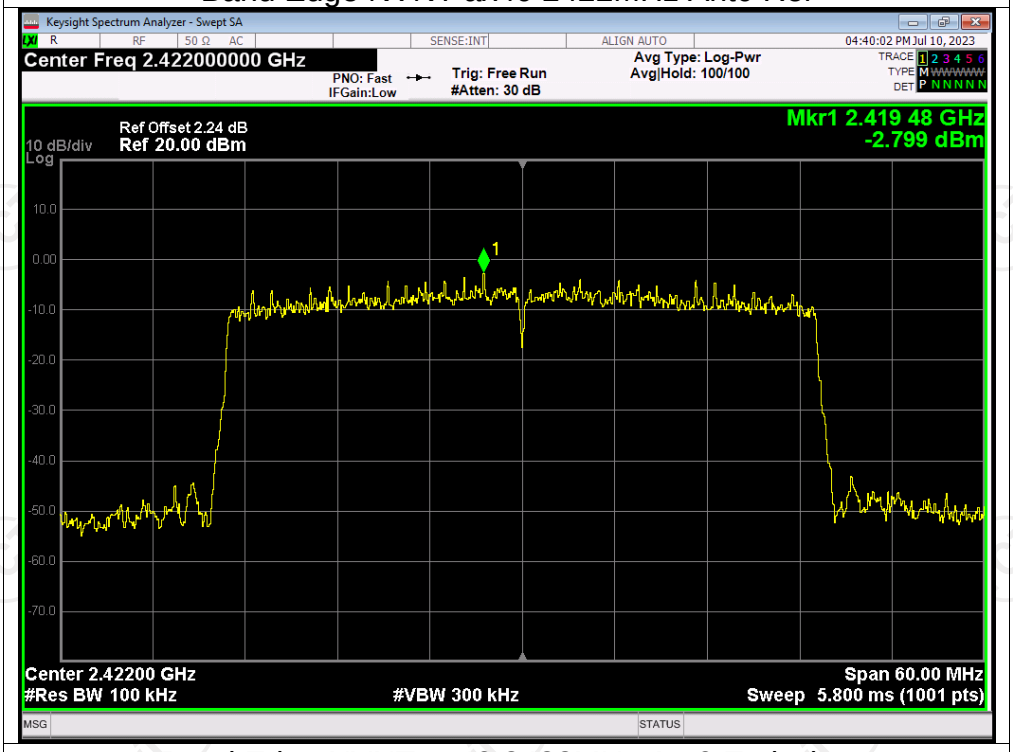
Band Edge NVNT ax20 2462MHz Ant0 Ref



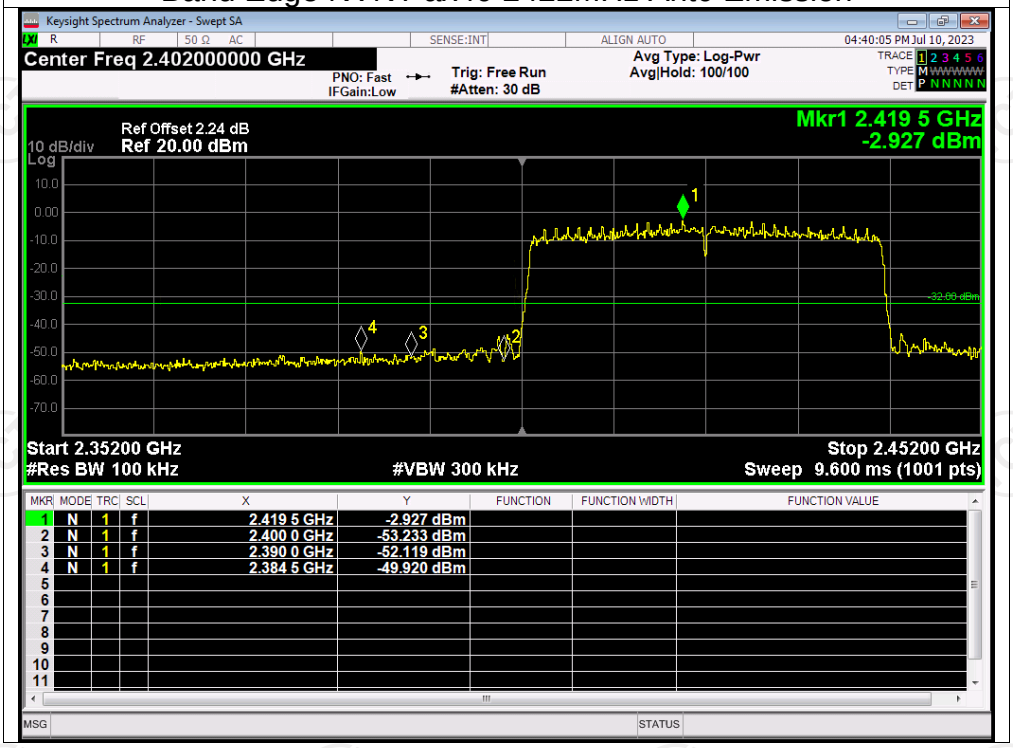
Band Edge NVNT ax20 2462MHz Ant0 Emission



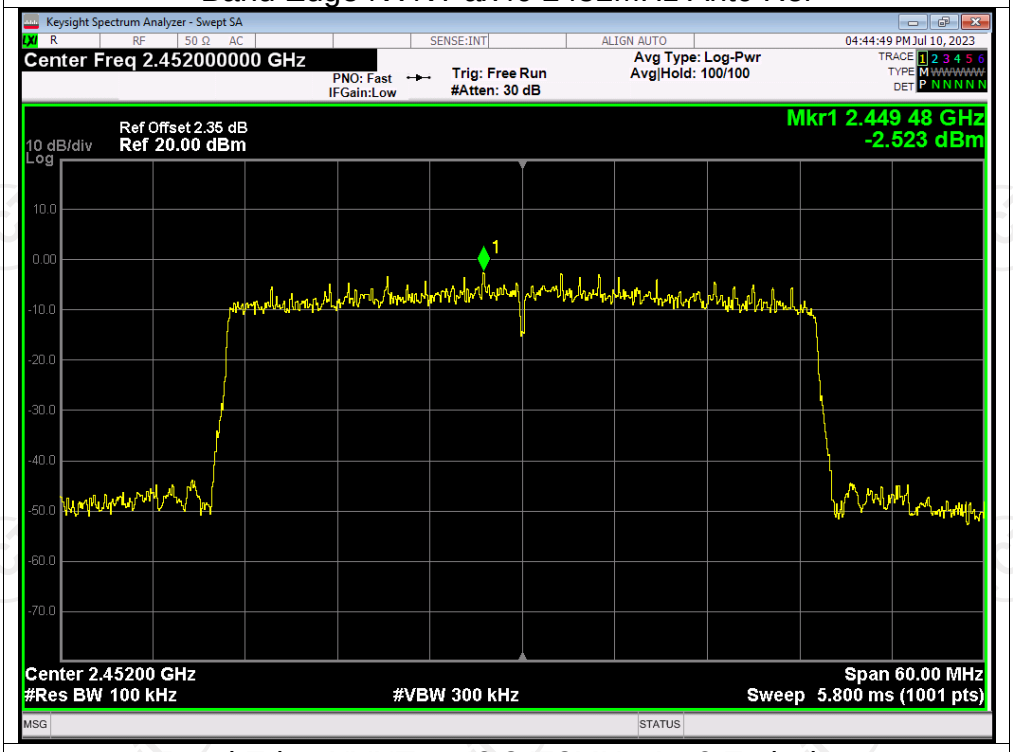
Band Edge NVNT ax40 2422MHz Ant0 Ref



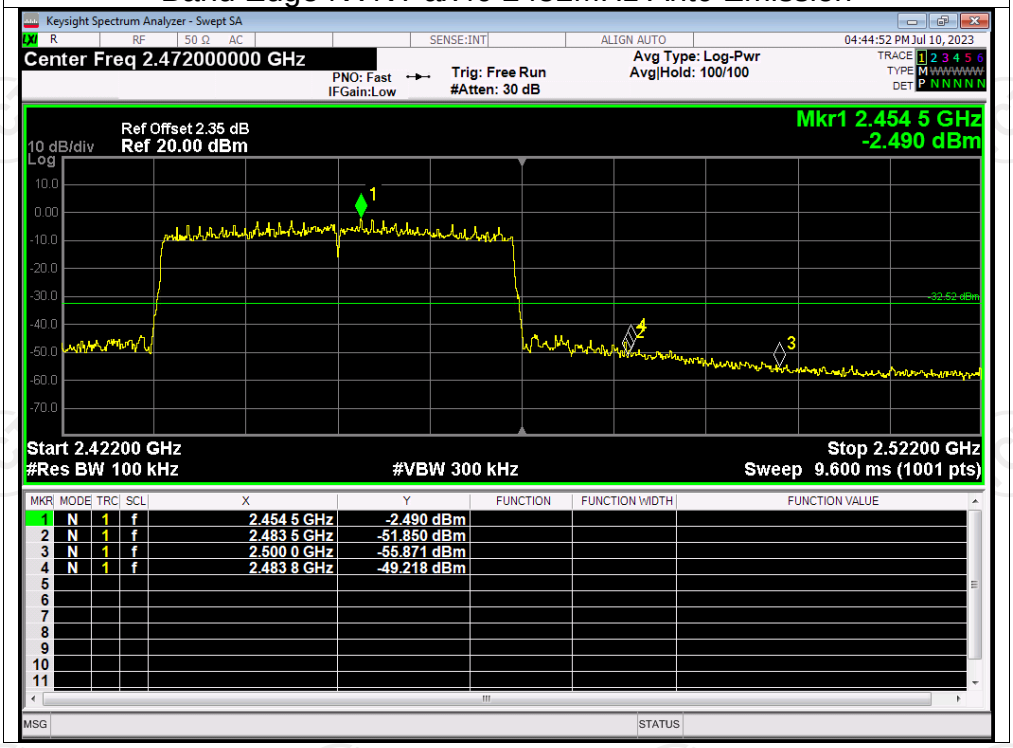
Band Edge NVNT ax40 2422MHz Ant0 Emission



Band Edge NVNT ax40 2452MHz Ant0 Ref



Band Edge NVNT ax40 2452MHz Ant0 Emission

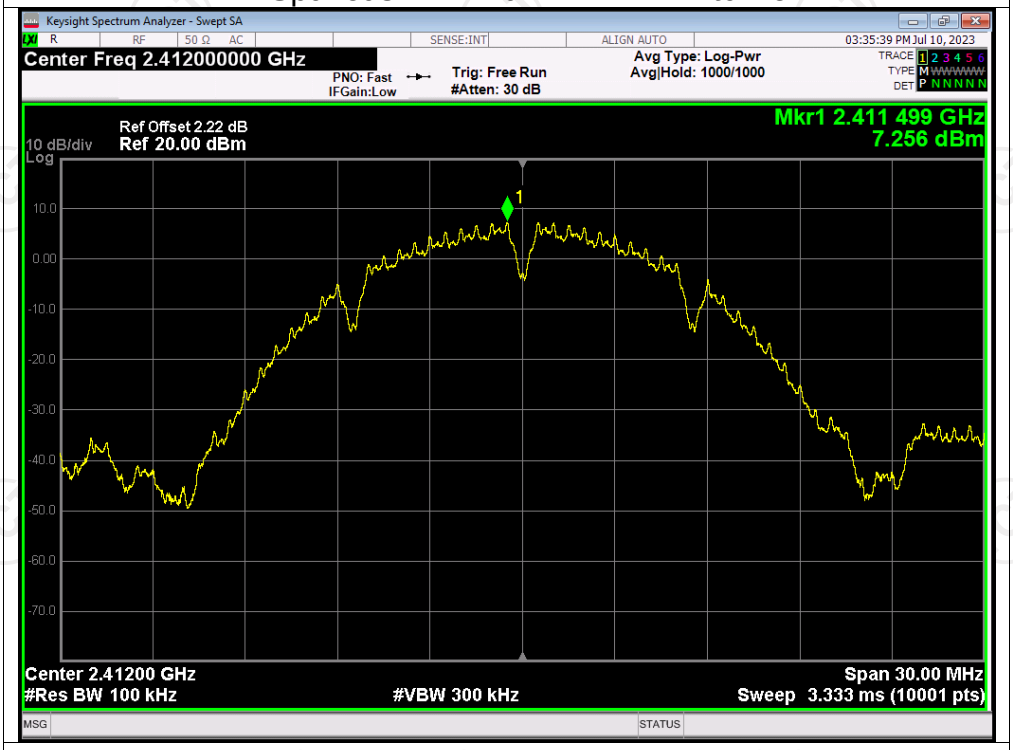


Conducted RF Spurious Emission

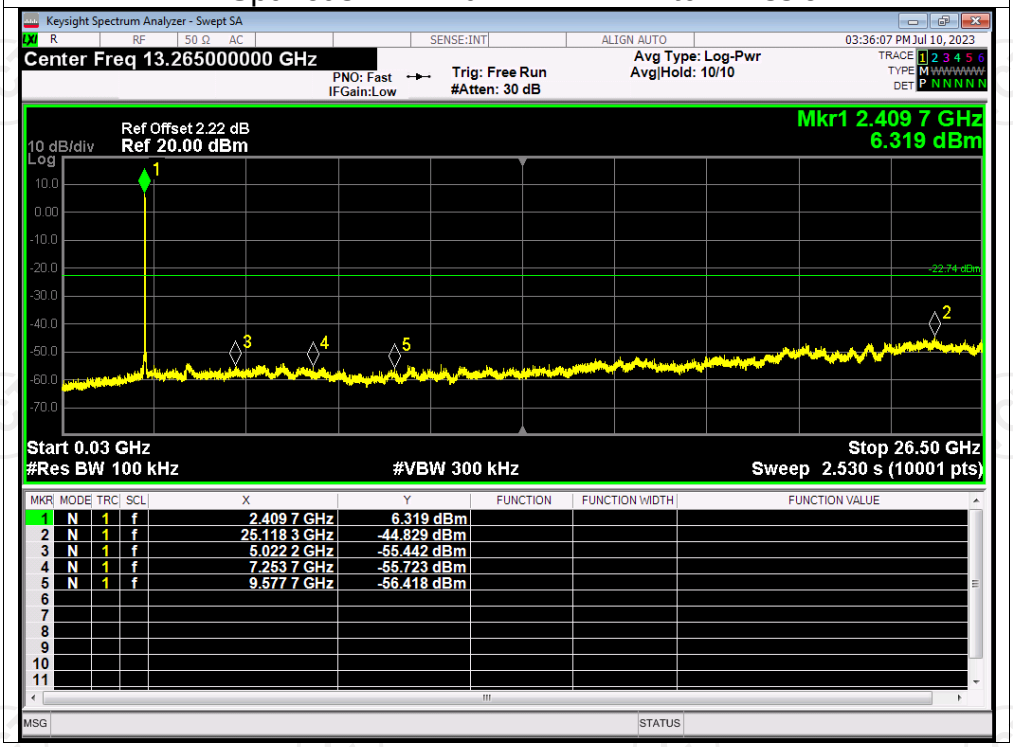
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-52.08	-30	Pass
NVNT	b	2437	Ant0	-52.73	-30	Pass
NVNT	b	2462	Ant0	-51.84	-30	Pass
NVNT	g	2412	Ant0	-52.04	-30	Pass
NVNT	g	2437	Ant0	-51.68	-30	Pass
NVNT	g	2462	Ant0	-51.83	-30	Pass
NVNT	n20	2412	Ant0	-50.86	-30	Pass
NVNT	n20	2437	Ant0	-51.89	-30	Pass
NVNT	n20	2462	Ant0	-51.49	-30	Pass
NVNT	n40	2422	Ant0	-48.58	-30	Pass
NVNT	n40	2437	Ant0	-48.03	-30	Pass
NVNT	n40	2452	Ant0	-43.15	-30	Pass
NVNT	ax20	2412	Ant0	-45.37	-30	Pass
NVNT	ax20	2437	Ant0	-45.94	-30	Pass
NVNT	ax20	2462	Ant0	-45.86	-30	Pass
NVNT	ax40	2422	Ant0	-42.00	-30	Pass
NVNT	ax40	2437	Ant0	-42.06	-30	Pass
NVNT	ax40	2452	Ant0	-41.60	-30	Pass

Test Graphs

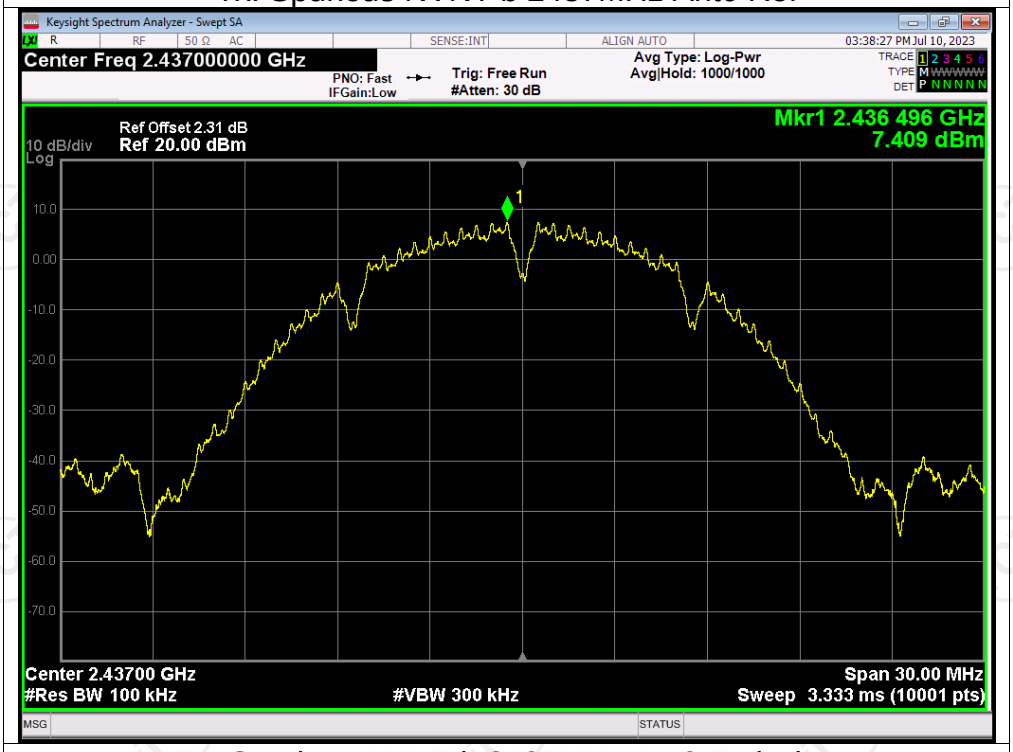
Tx. Spurious NVNT b 2412MHz Ant0 Ref



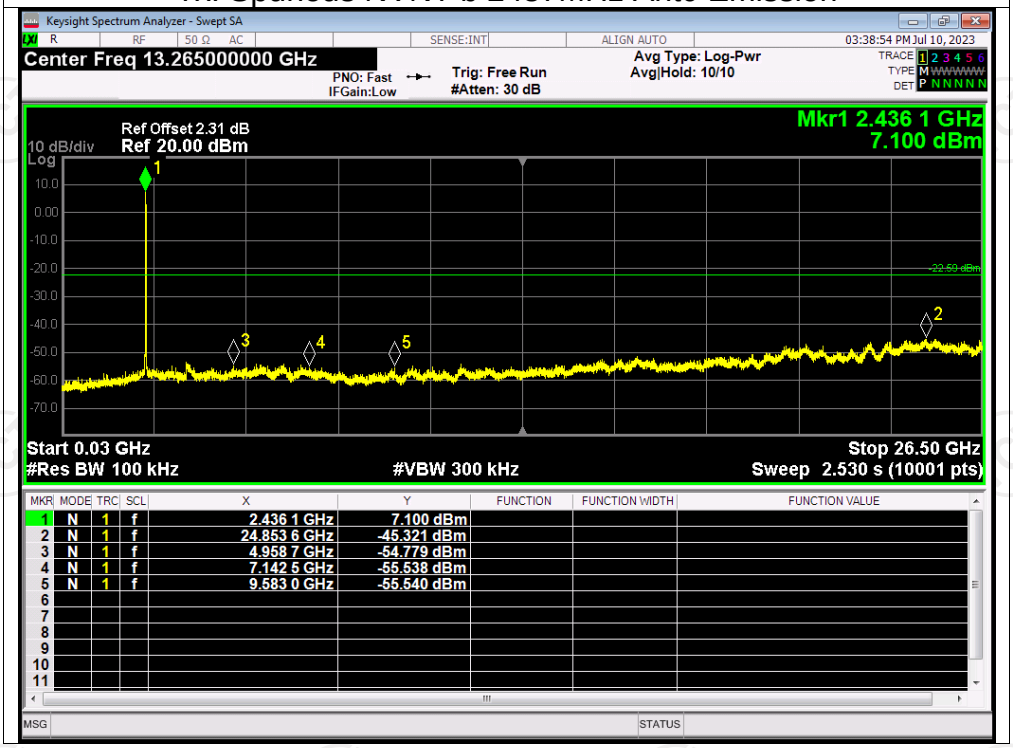
Tx. Spurious NVNT b 2412MHz Ant0 Emission



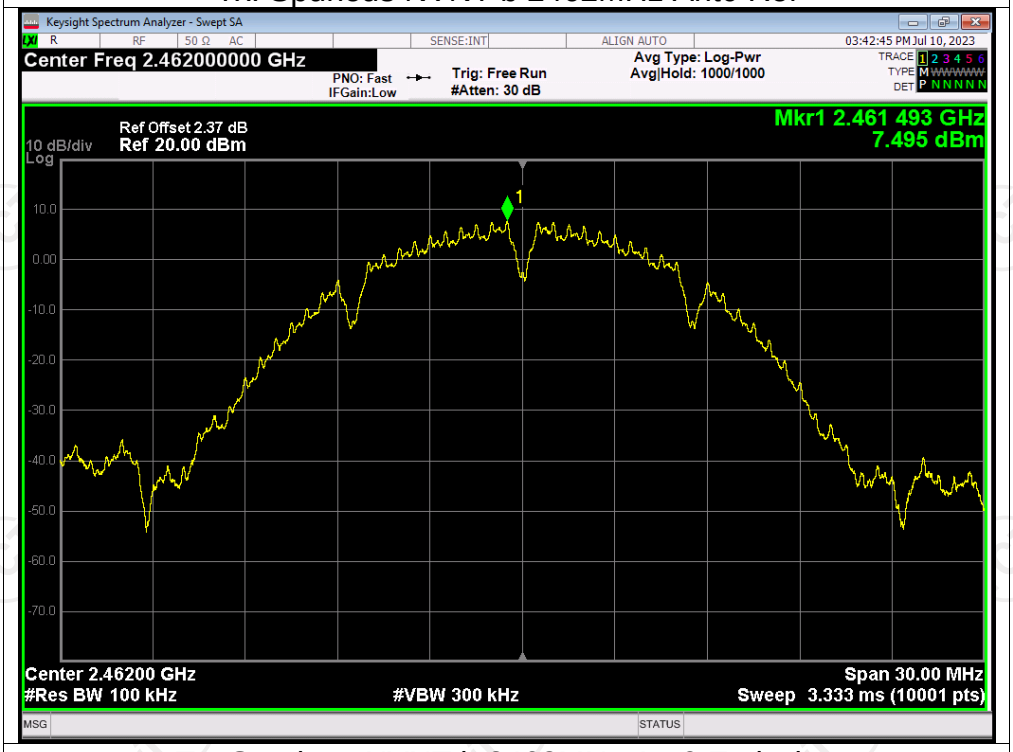
Tx. Spurious NVNT b 2437MHz Ant0 Ref



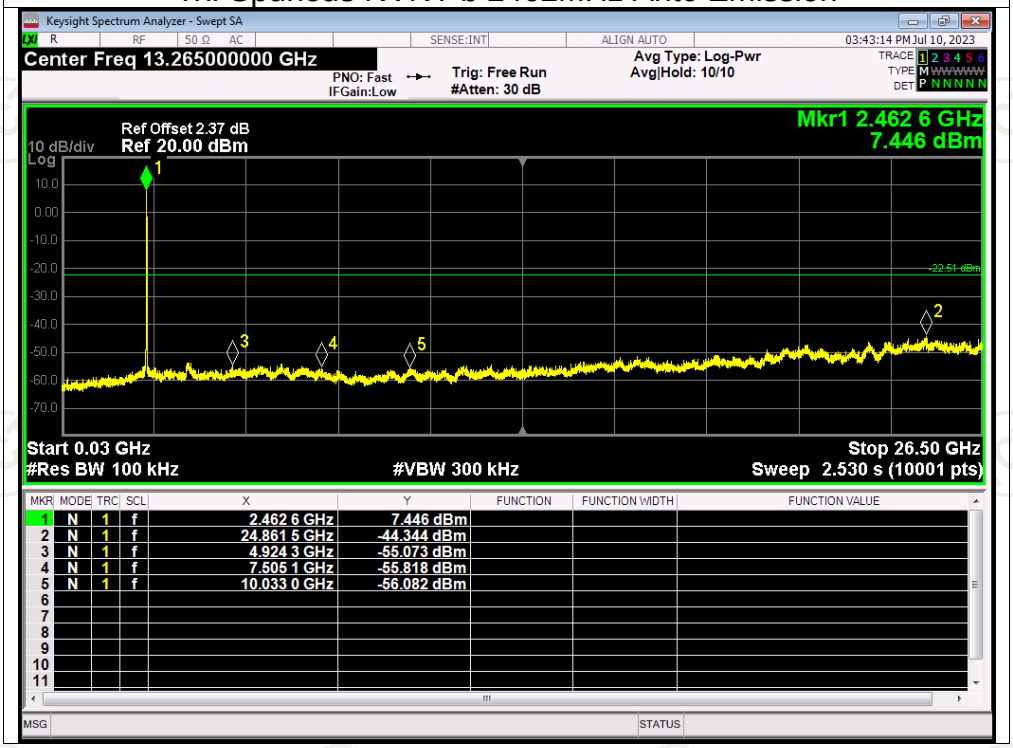
Tx. Spurious NVNT b 2437MHz Ant0 Emission



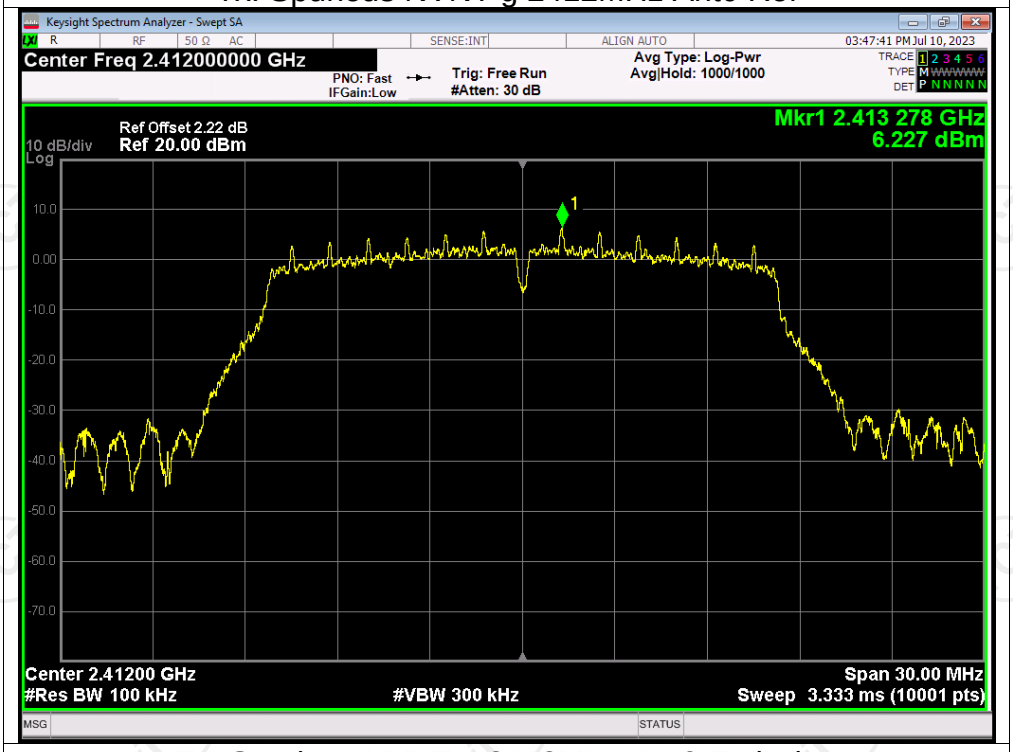
Tx. Spurious NVNT b 2462MHz Ant0 Ref



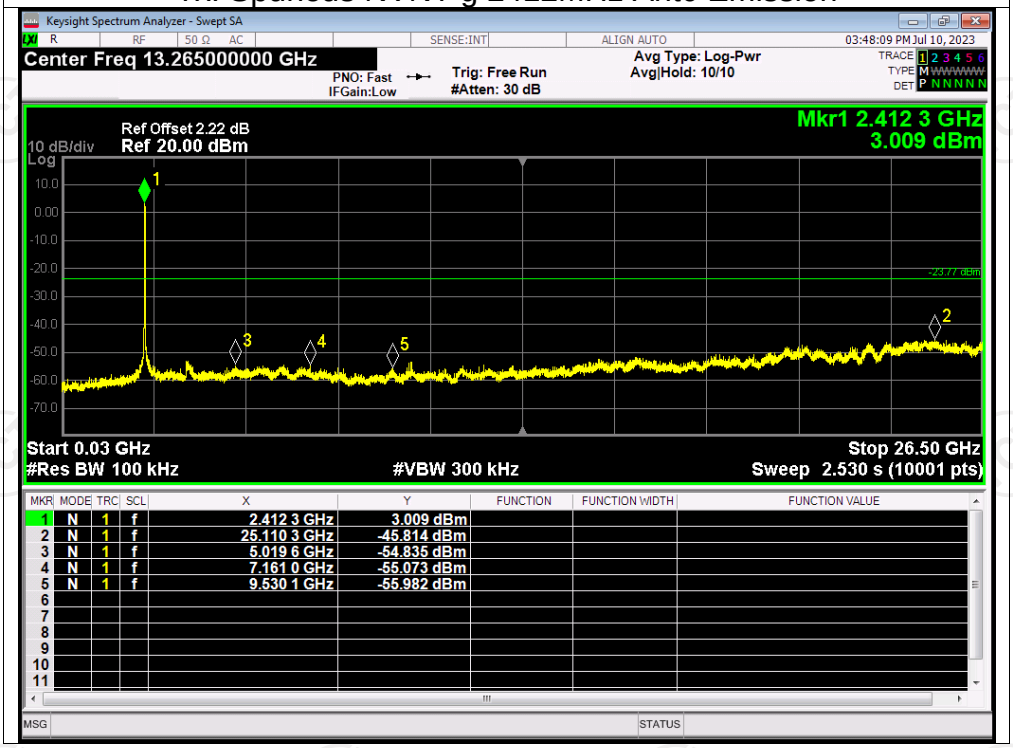
Tx. Spurious NVNT b 2462MHz Ant0 Emission



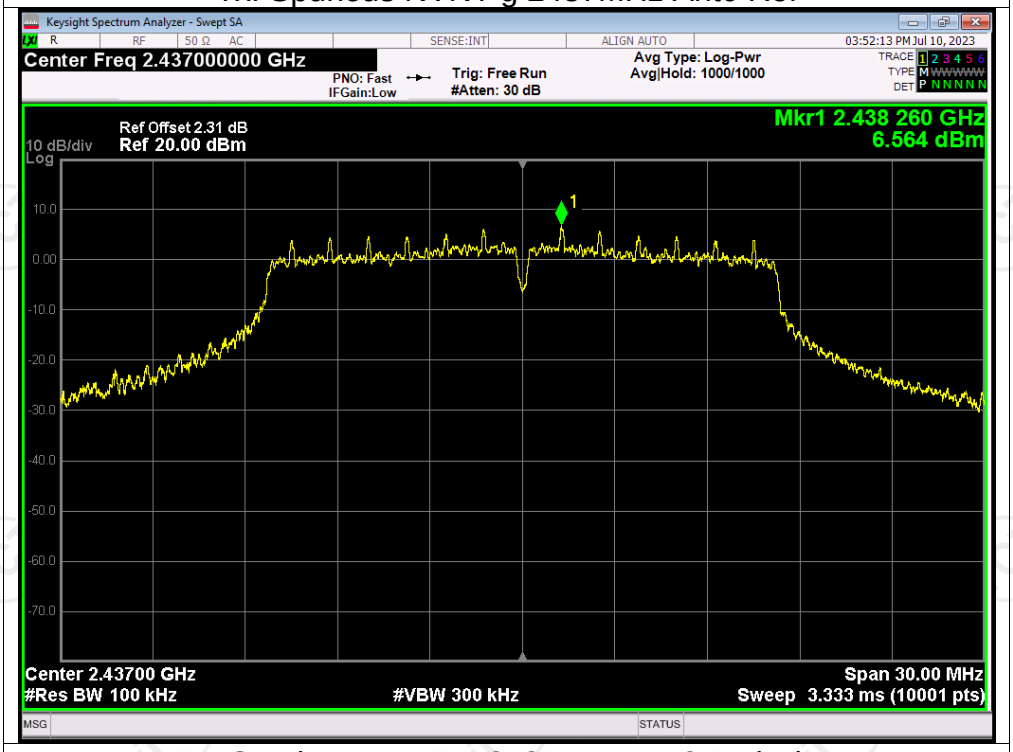
Tx. Spurious NVNT g 2412MHz Ant0 Ref



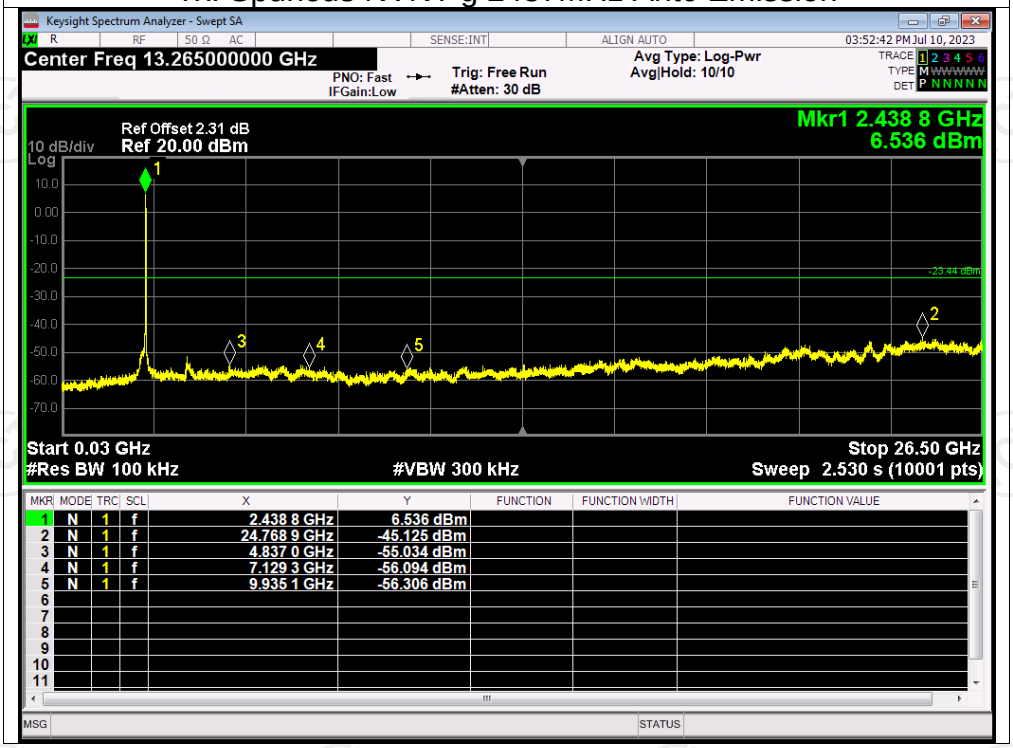
Tx. Spurious NVNT g 2412MHz Ant0 Emission



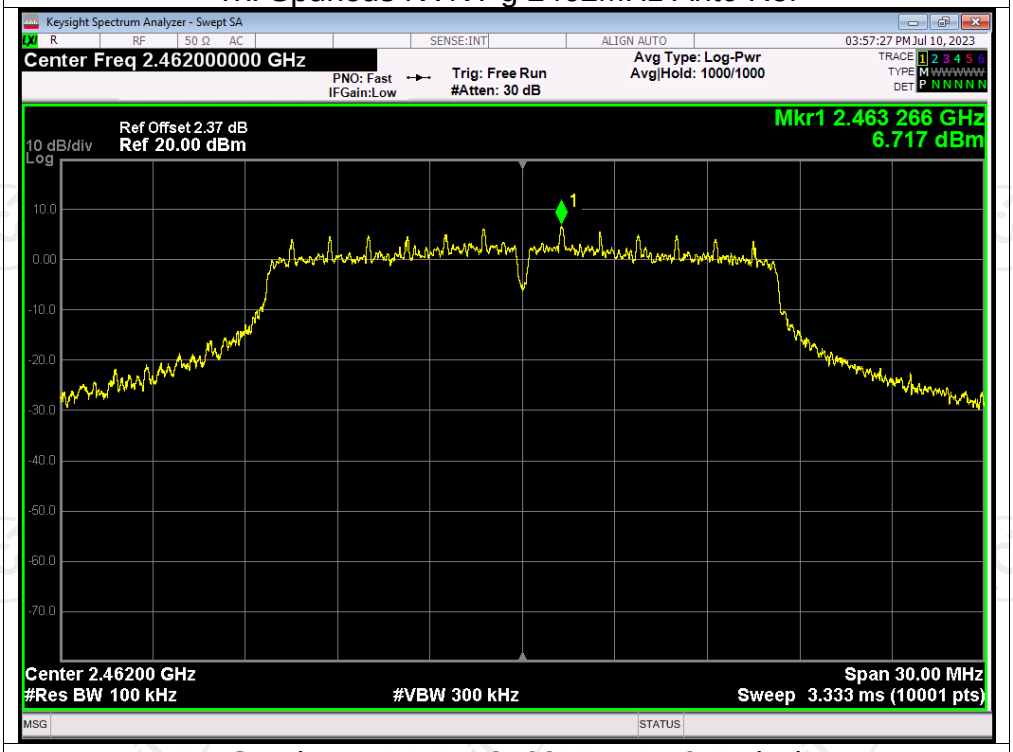
Tx. Spurious NVNT g 2437MHz Ant0 Ref



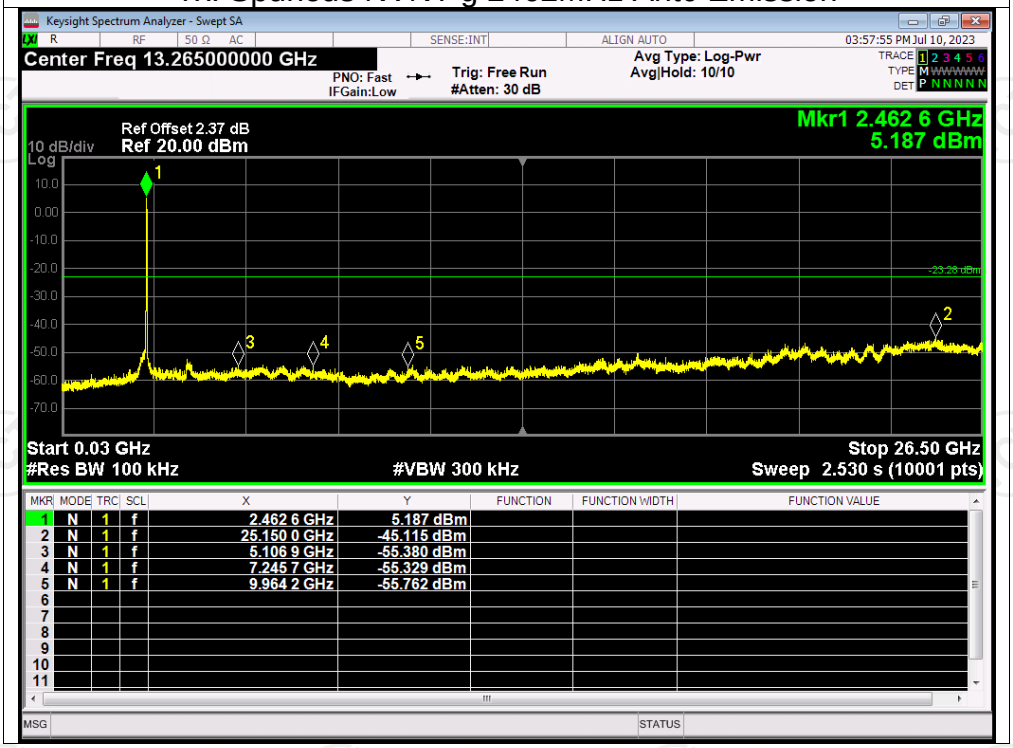
Tx. Spurious NVNT g 2437MHz Ant0 Emission



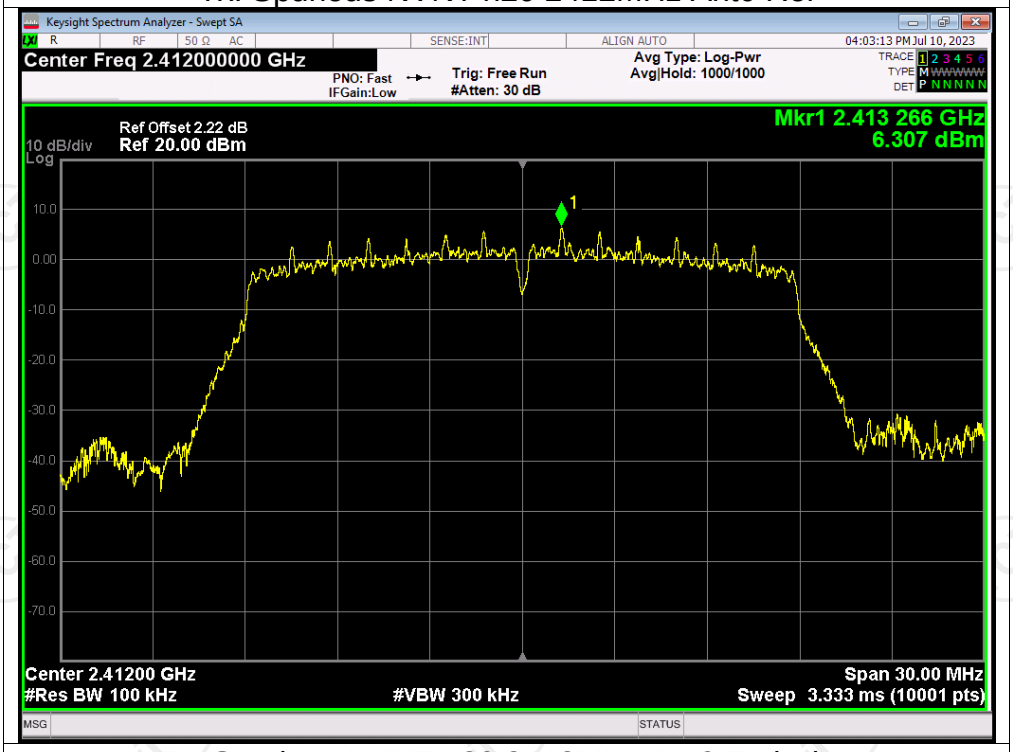
Tx. Spurious NVNT g 2462MHz Ant0 Ref



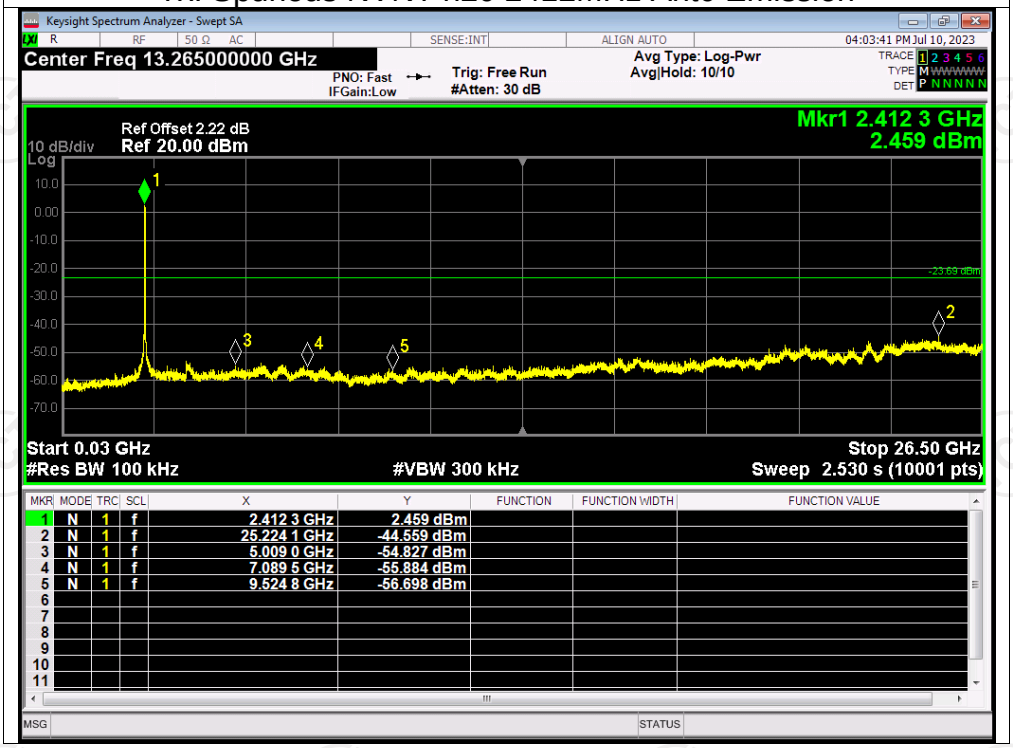
Tx. Spurious NVNT g 2462MHz Ant0 Emission



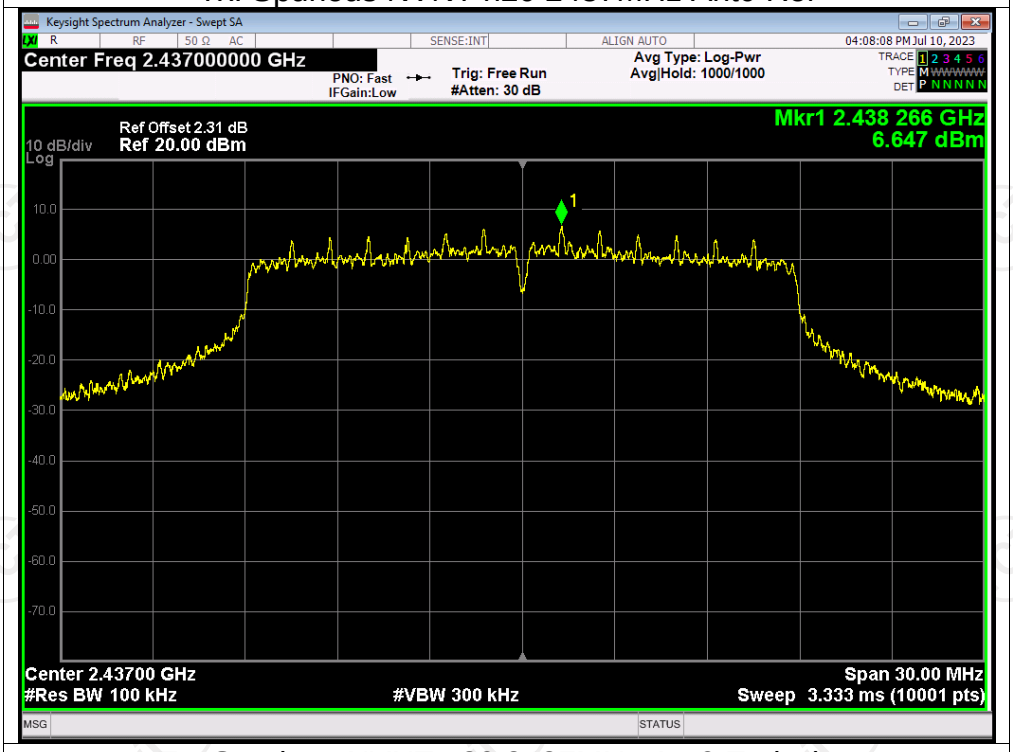
Tx. Spurious NVNT n20 2412MHz Ant0 Ref



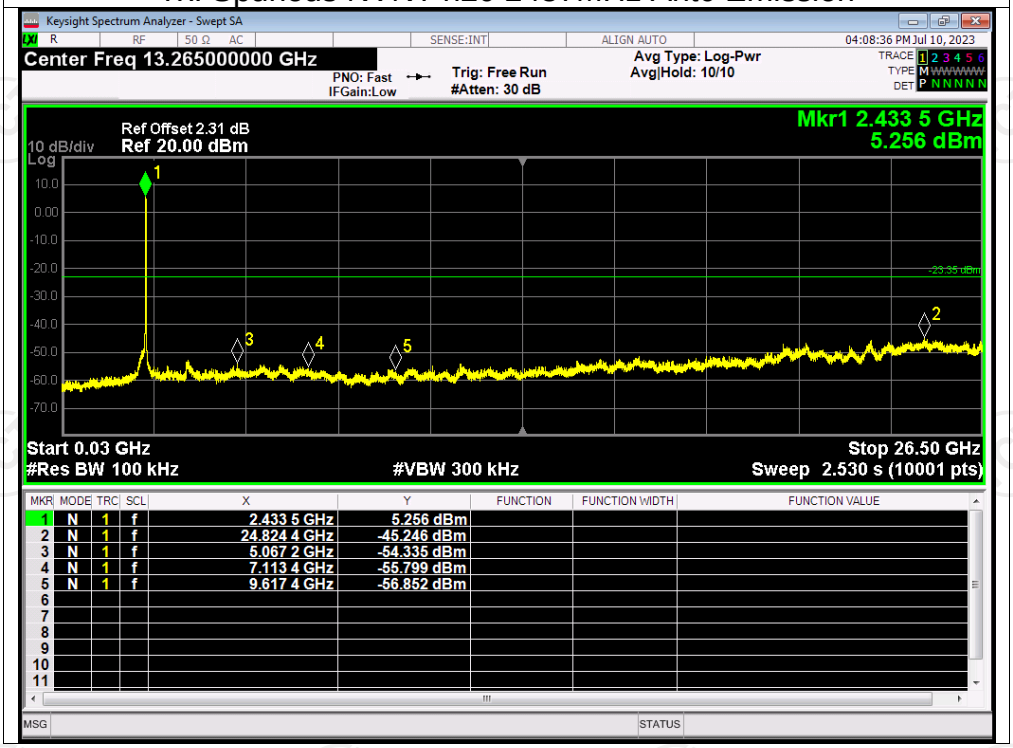
Tx. Spurious NVNT n20 2412MHz Ant0 Emission



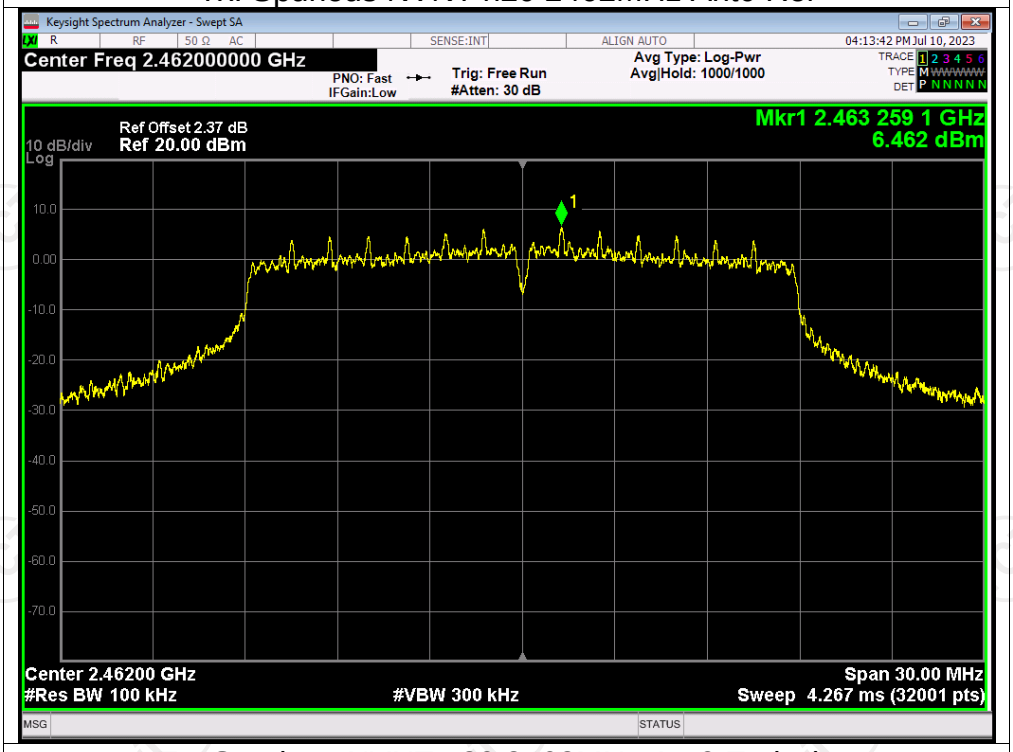
Tx. Spurious NVNT n20 2437MHz Ant0 Ref



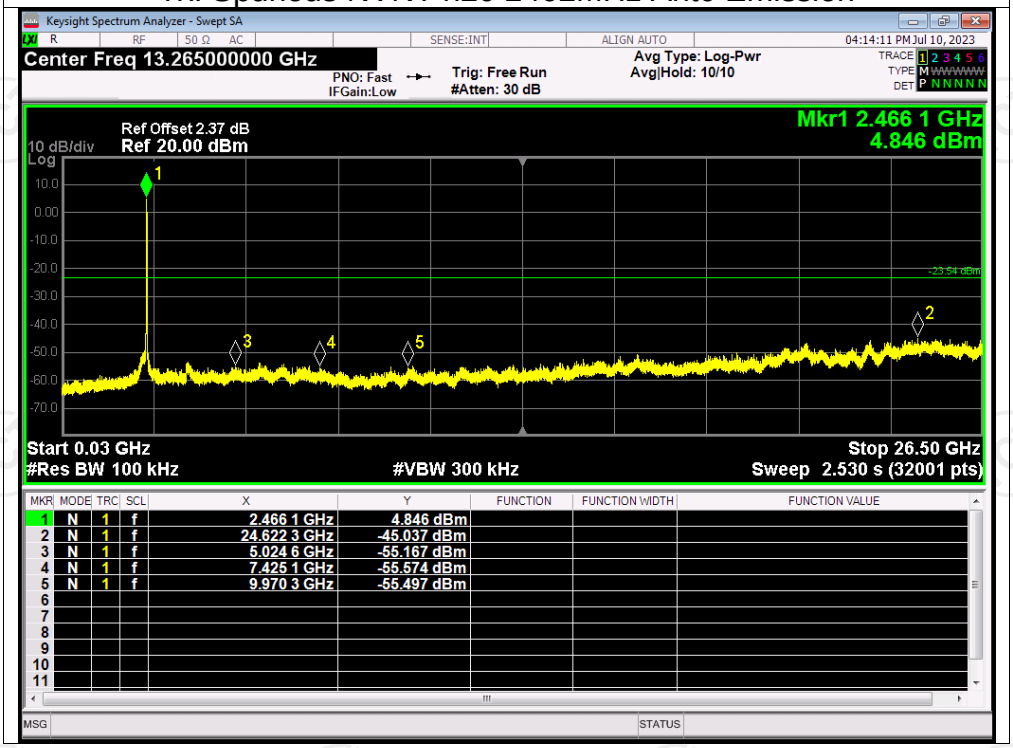
Tx. Spurious NVNT n20 2437MHz Ant0 Emission



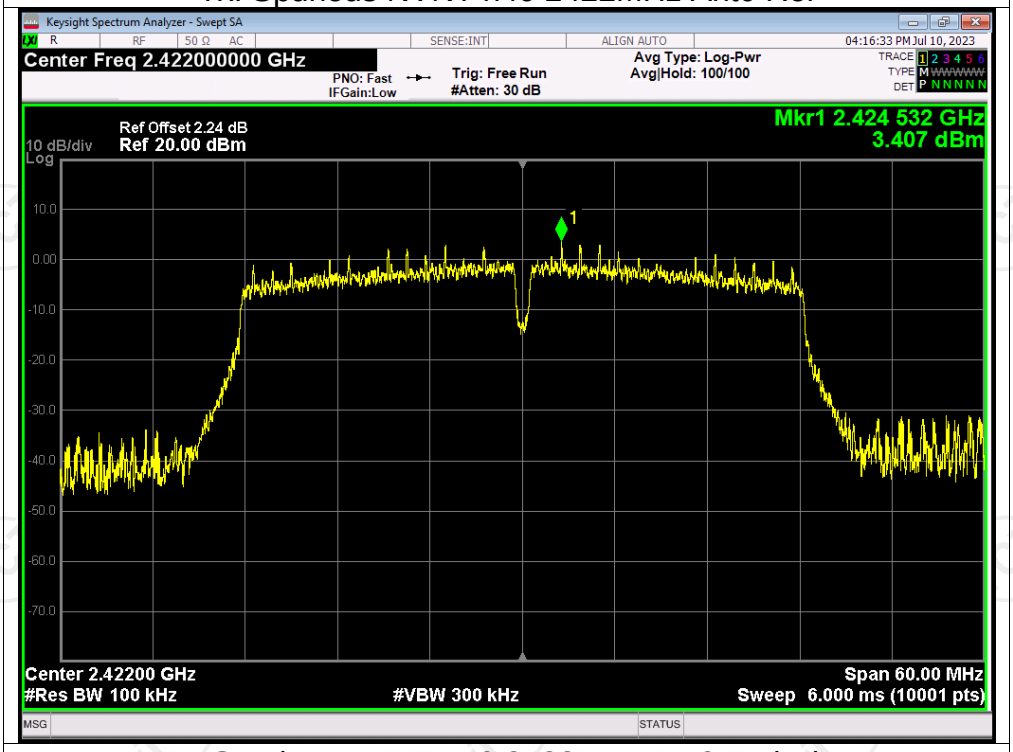
Tx. Spurious NVNT n20 2462MHz Ant0 Ref



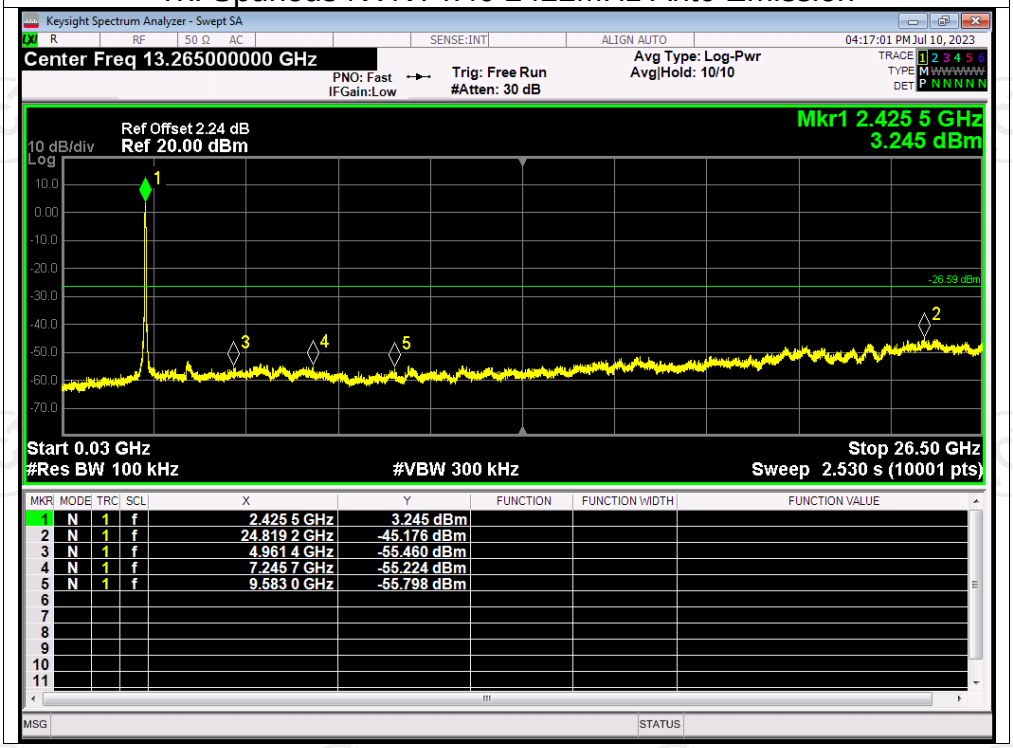
Tx. Spurious NVNT n20 2462MHz Ant0 Emission



Tx. Spurious NVNT n40 2422MHz Ant0 Ref



Tx. Spurious NVNT n40 2422MHz Ant0 Emission



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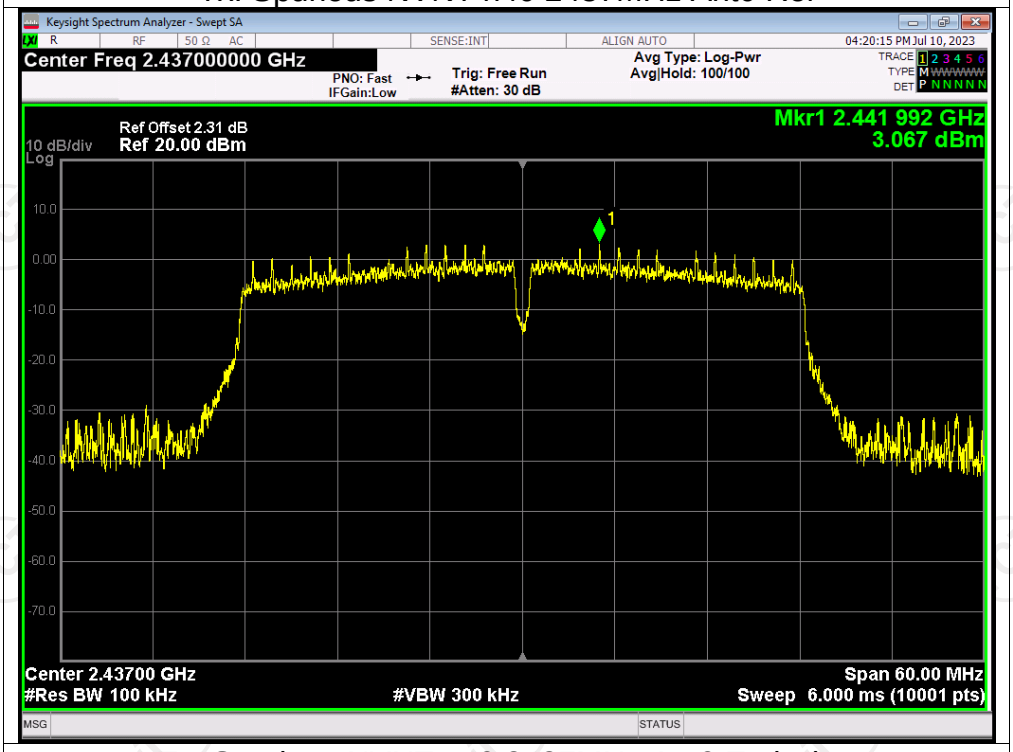
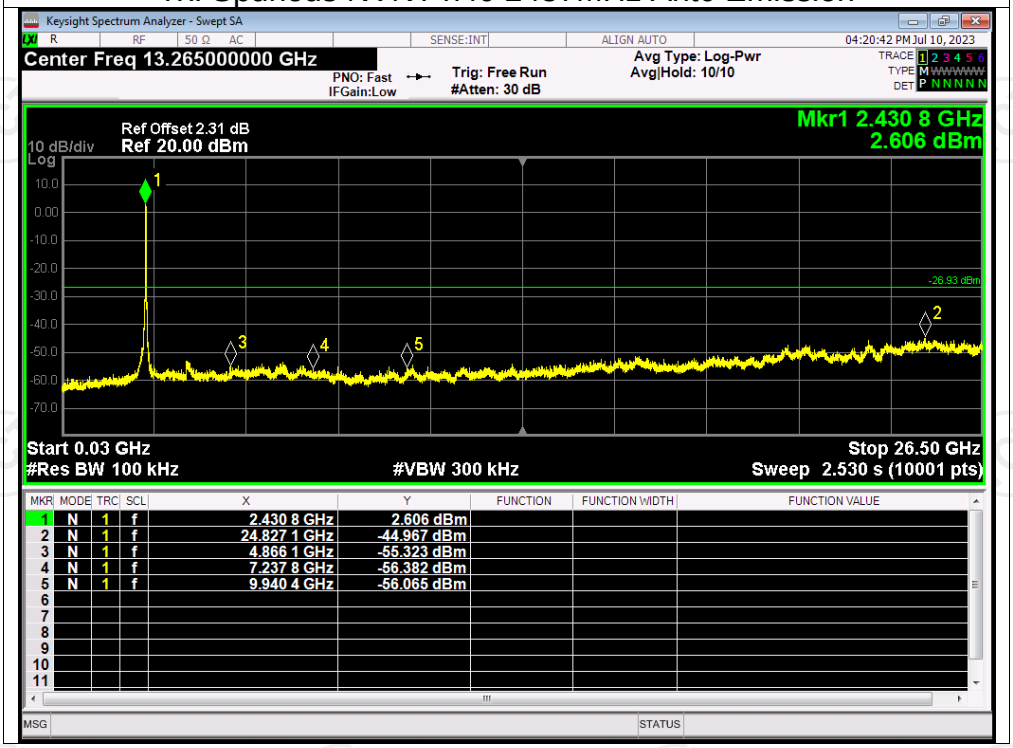
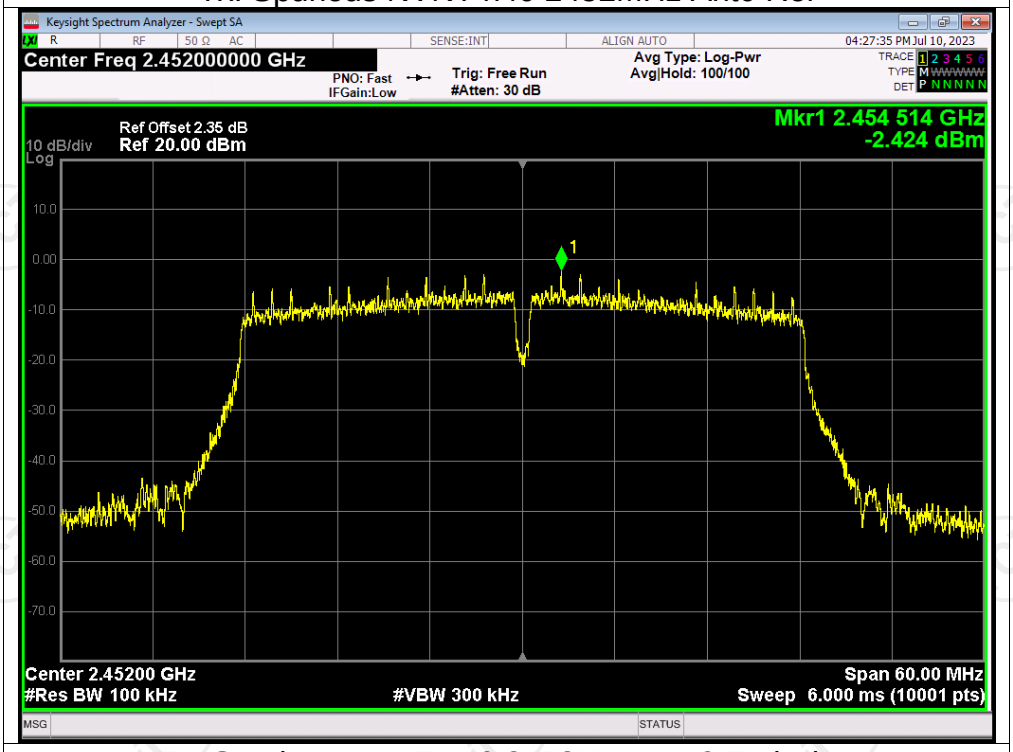


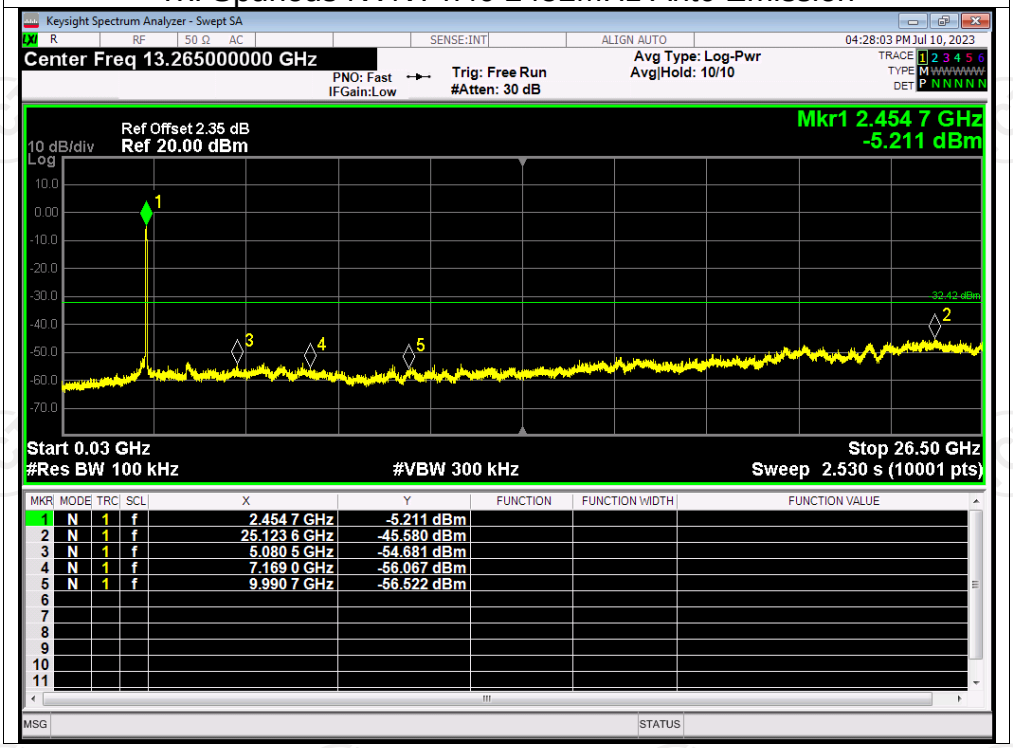
Tx. Spurious NVNT n40 2437MHz Ant0 Emission



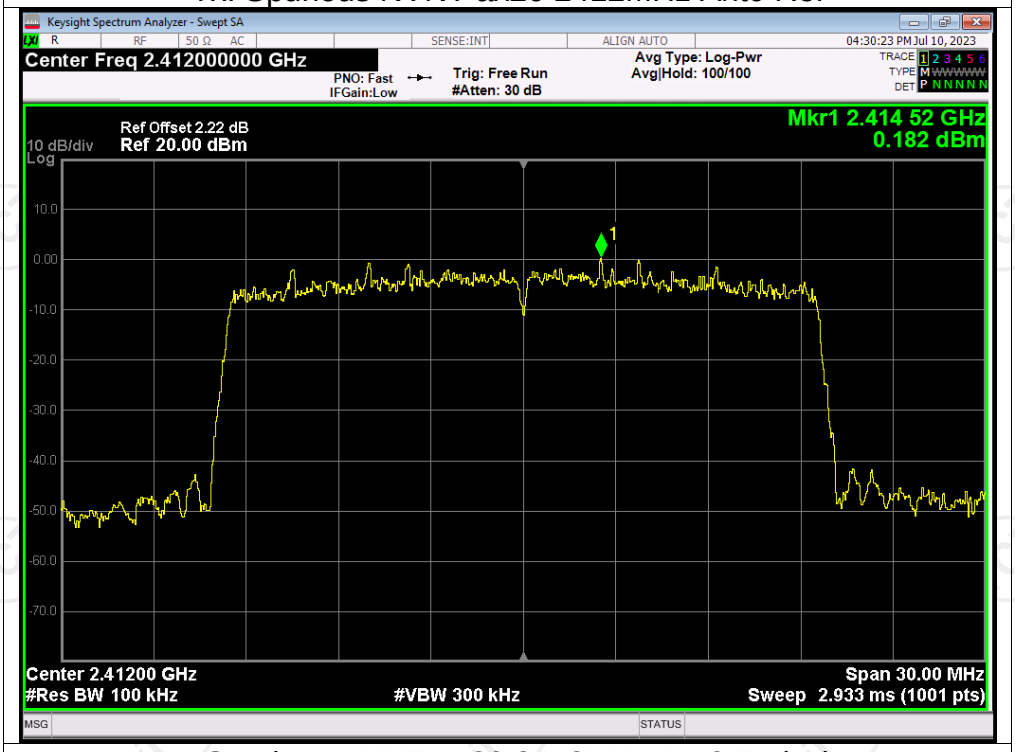
Tx. Spurious NVNT n40 2452MHz Ant0 Ref



Tx. Spurious NVNT n40 2452MHz Ant0 Emission



Tx. Spurious NVNT ax20 2412MHz Ant0 Ref



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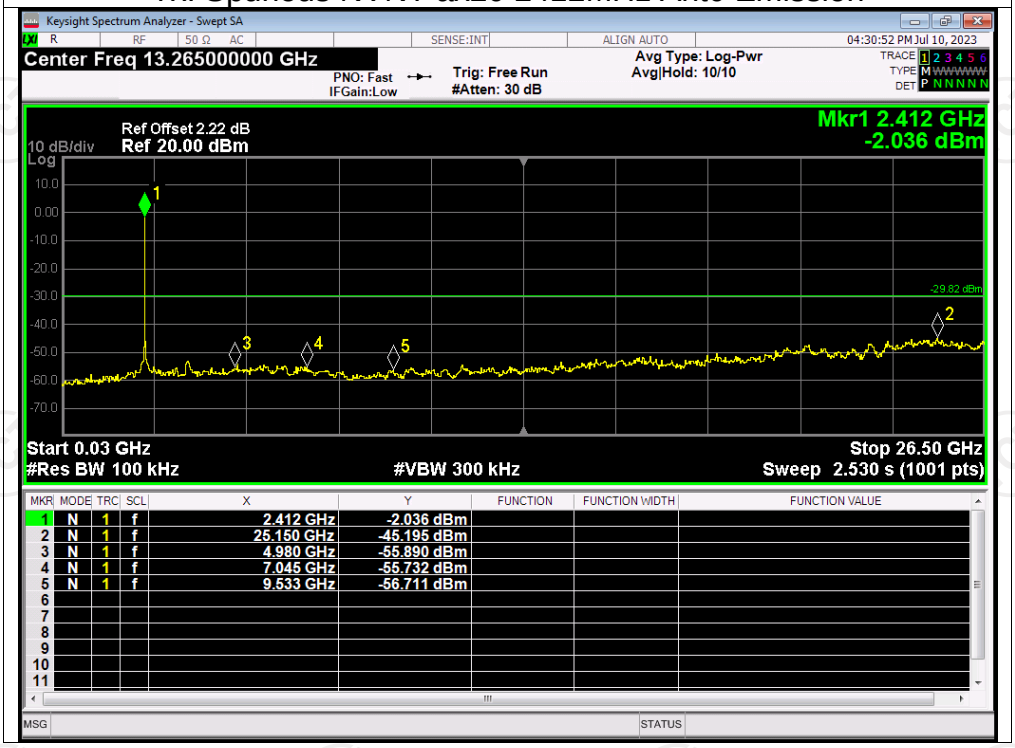
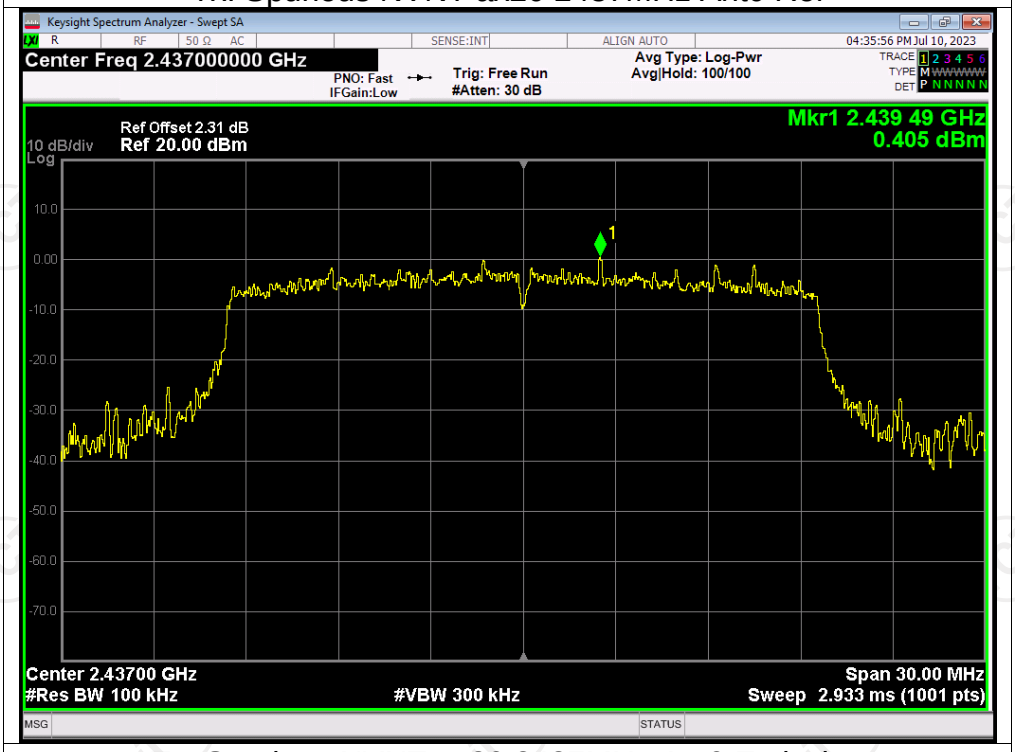
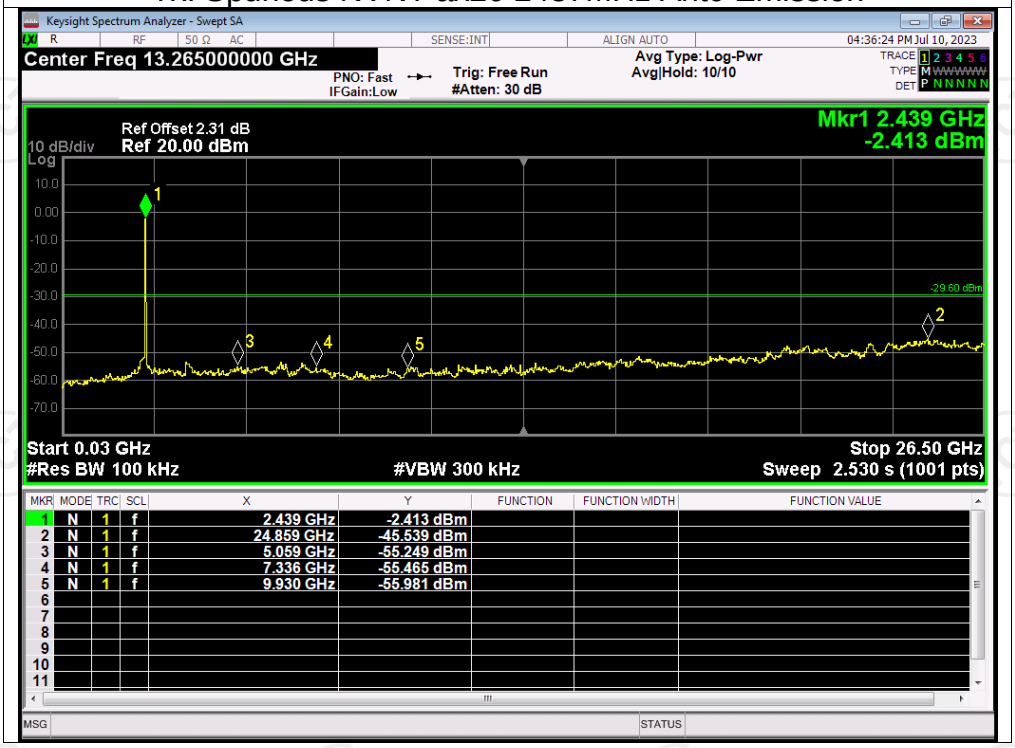


Tx. Spurious NVNT ax20 2437MHz Ant0 Ref

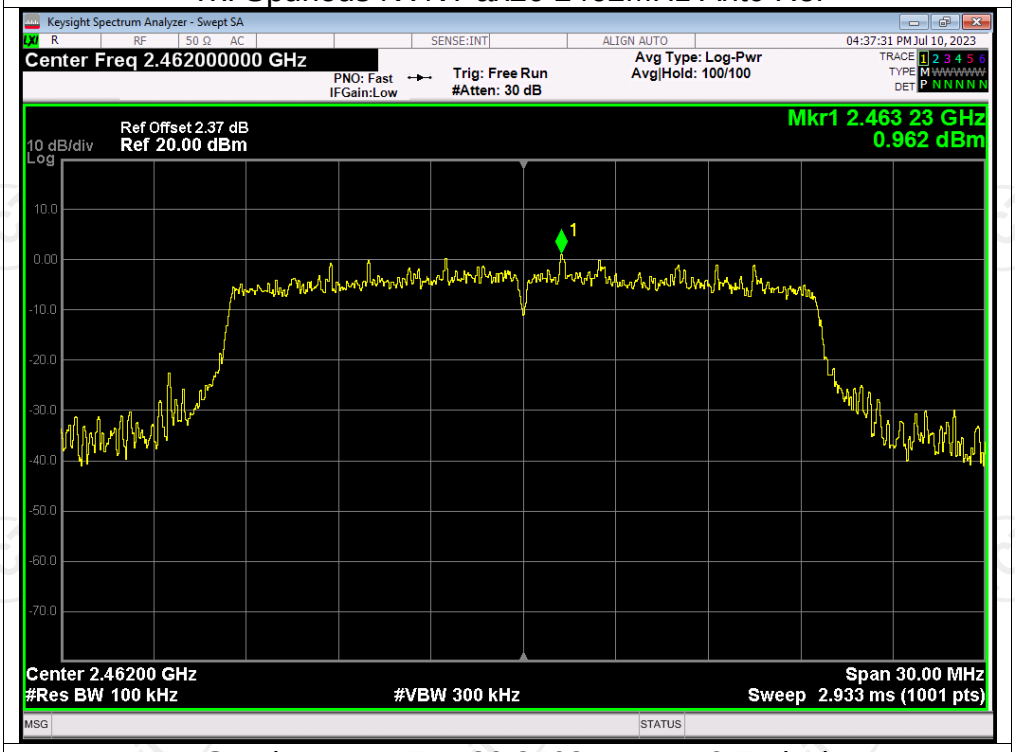


Tx. Spurious NVNT ax20 2437MHz Ant0 Emission

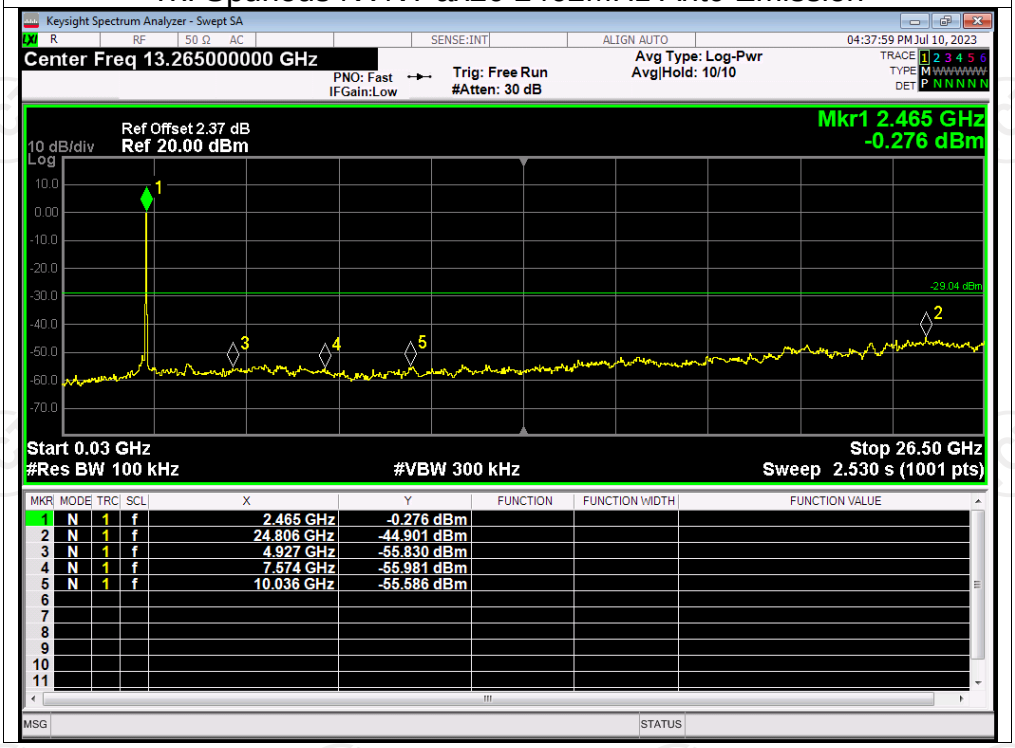


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439 GHz	-2.413 dBm			
2	N	1	f	24.859 GHz	-45.539 dBm			
3	N	1	f	5.059 GHz	-55.249 dBm			
4	N	1	f	7.336 GHz	-55.465 dBm			
5	N	1	f	9.930 GHz	-55.981 dBm			
6								
7								
8								
9								
10								
11								

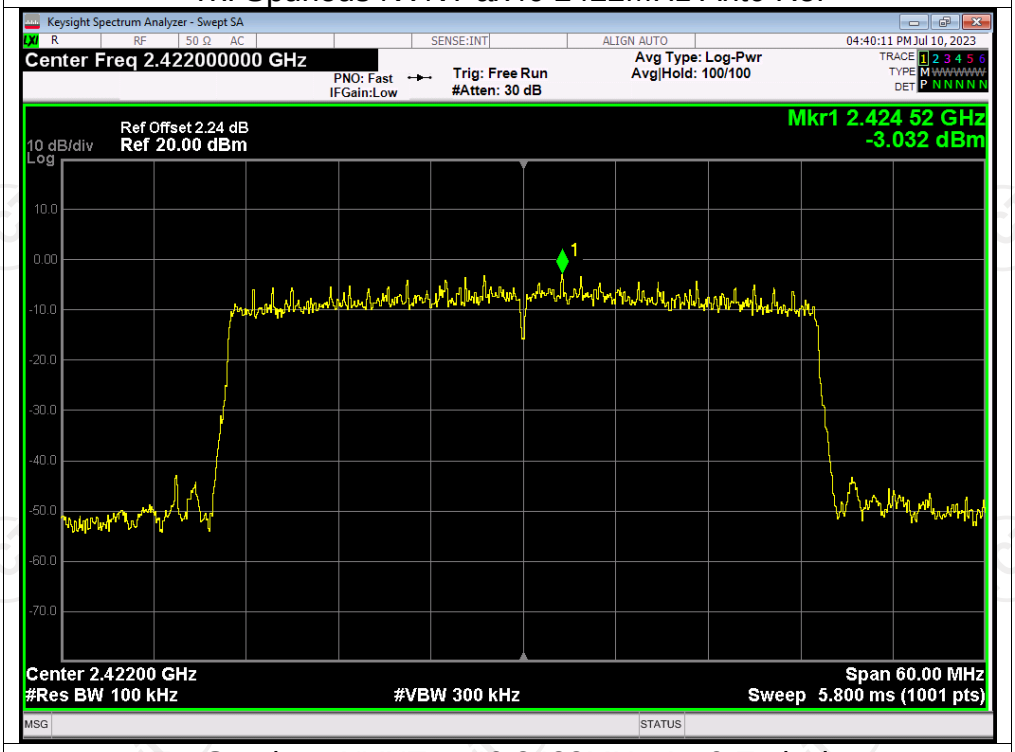
Tx. Spurious NVNT ax20 2462MHz Ant0 Ref



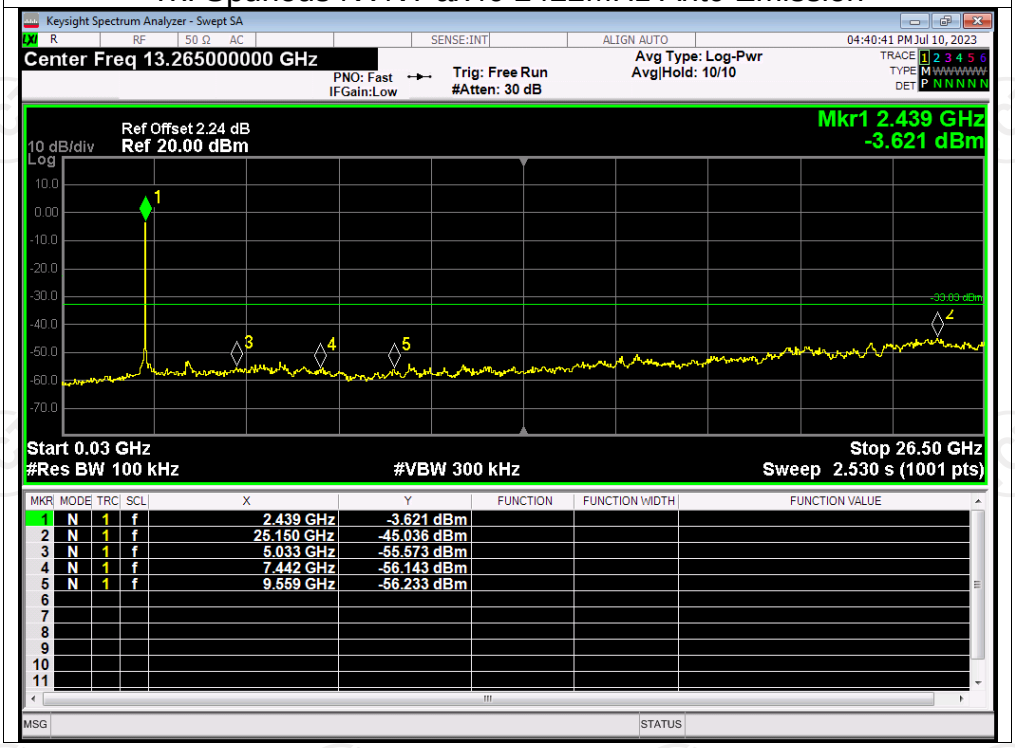
Tx. Spurious NVNT ax20 2462MHz Ant0 Emission



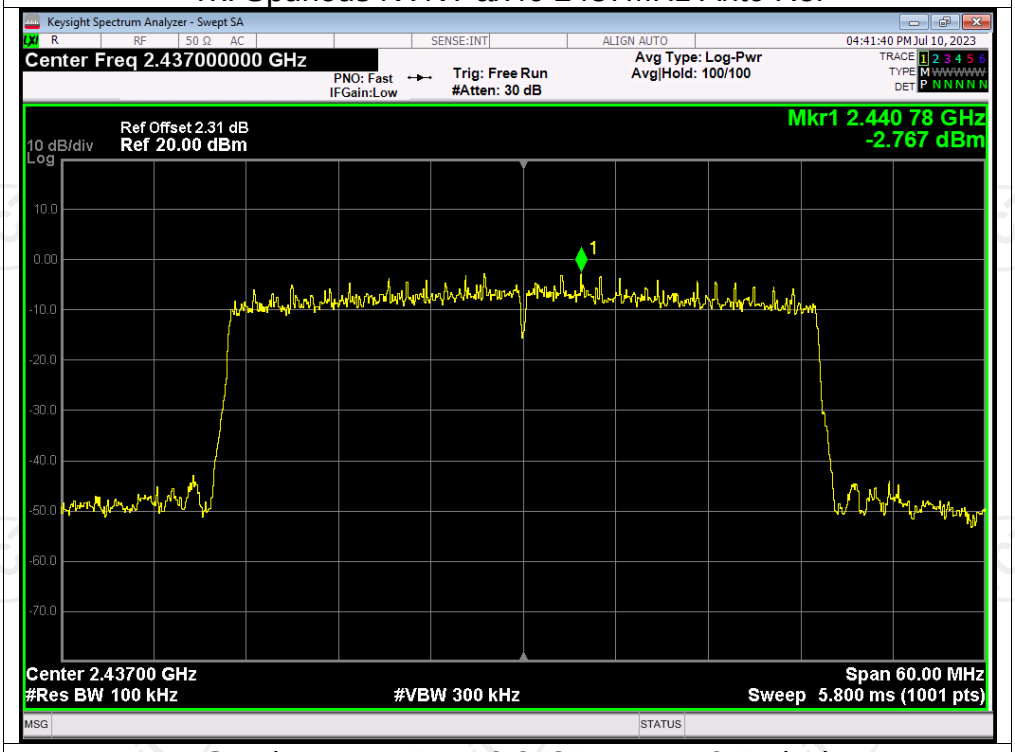
Tx. Spurious NVNT ax40 2422MHz Ant0 Ref



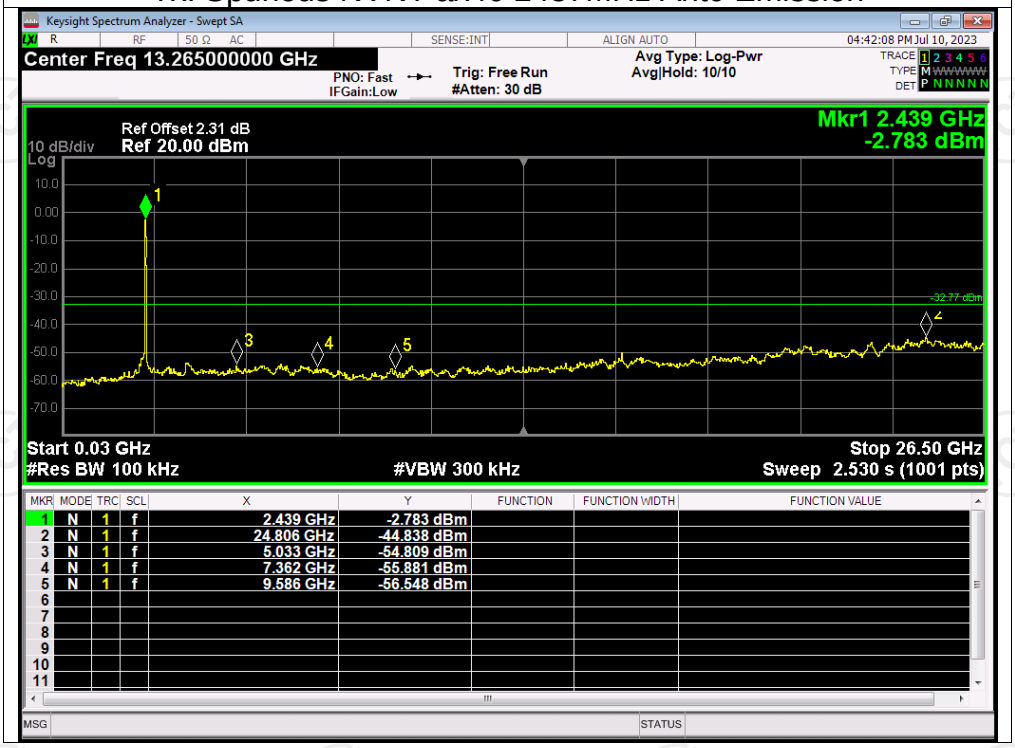
Tx. Spurious NVNT ax40 2422MHz Ant0 Emission



Tx. Spurious NVNT ax40 2437MHz Ant0 Ref

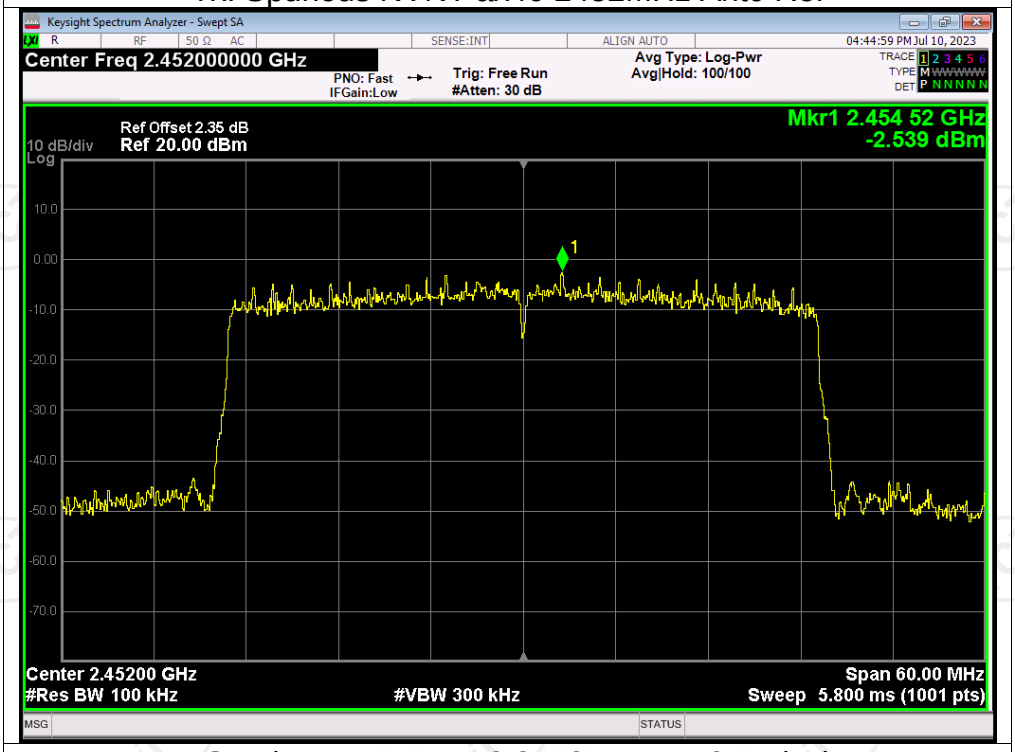


Tx. Spurious NVNT ax40 2437MHz Ant0 Emission

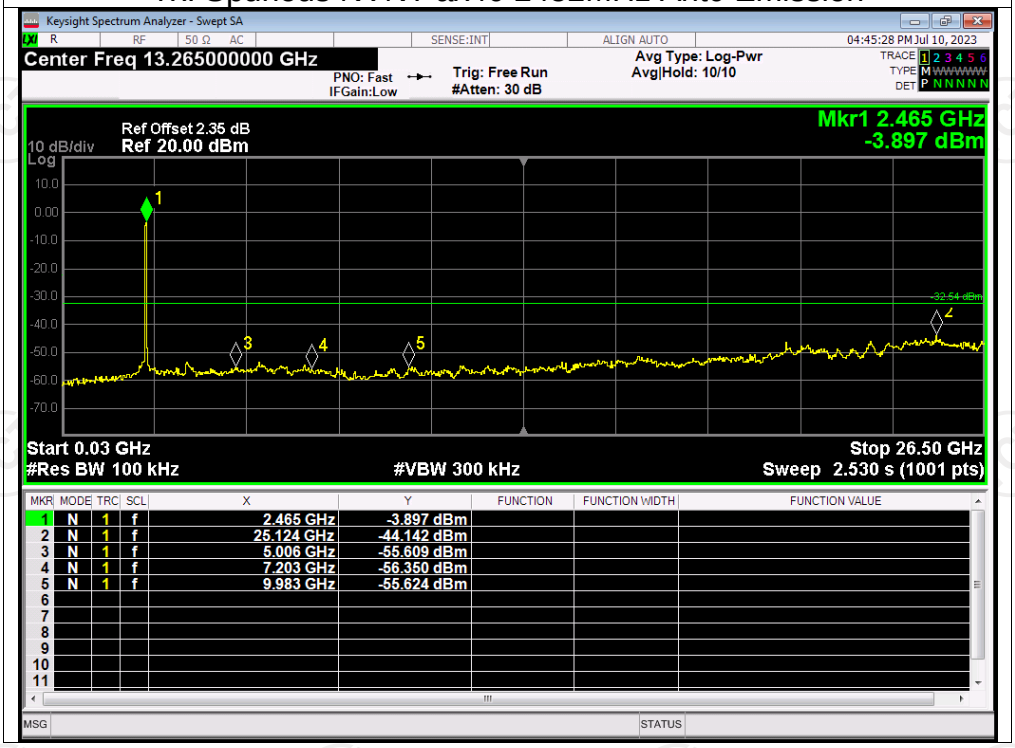


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439 GHz	-2.783 dBm			
2	N	1	f	24.806 GHz	-44.838 dBm			
3	N	1	f	5.033 GHz	-54.809 dBm			
4	N	1	f	7.362 GHz	-55.881 dBm			
5	N	1	f	9.586 GHz	-56.548 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT ax40 2452MHz Ant0 Ref



Tx. Spurious NVNT ax40 2452MHz Ant0 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.465 GHz	-3.897 dBm			
2	N	1	f	25.124 GHz	-44.142 dBm			
3	N	1	f	5.006 GHz	-55.609 dBm			
4	N	1	f	7.203 GHz	-56.350 dBm			
5	N	1	f	9.983 GHz	-55.624 dBm			
6								
7								
8								
9								
10								
11								

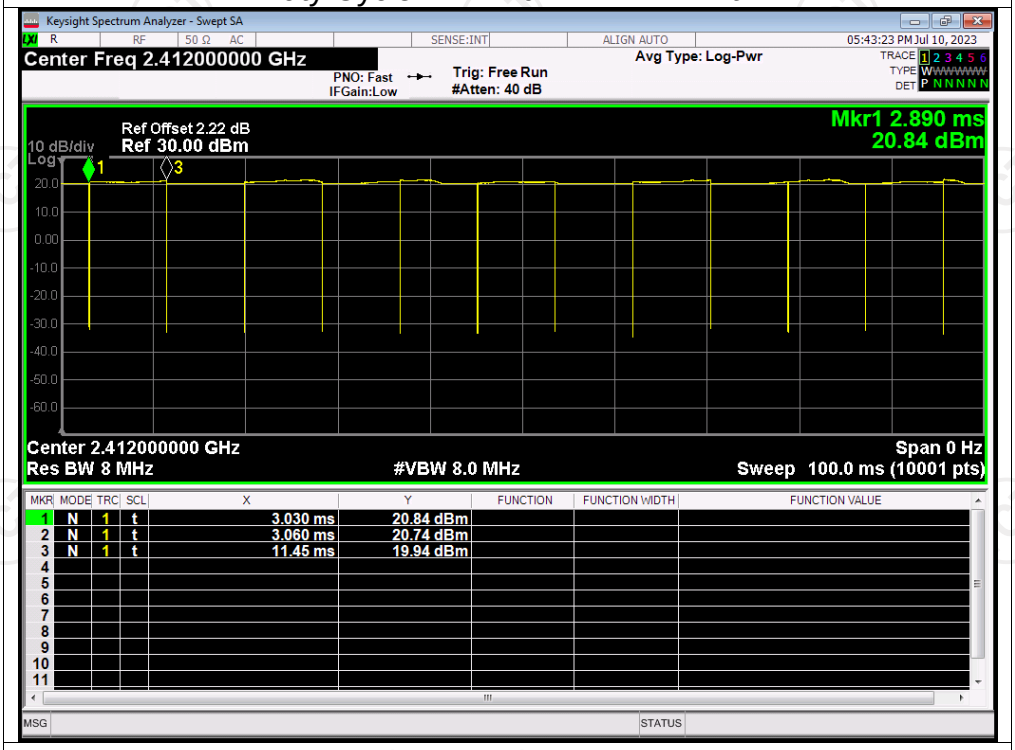
Antenna 1

Duty Cycle

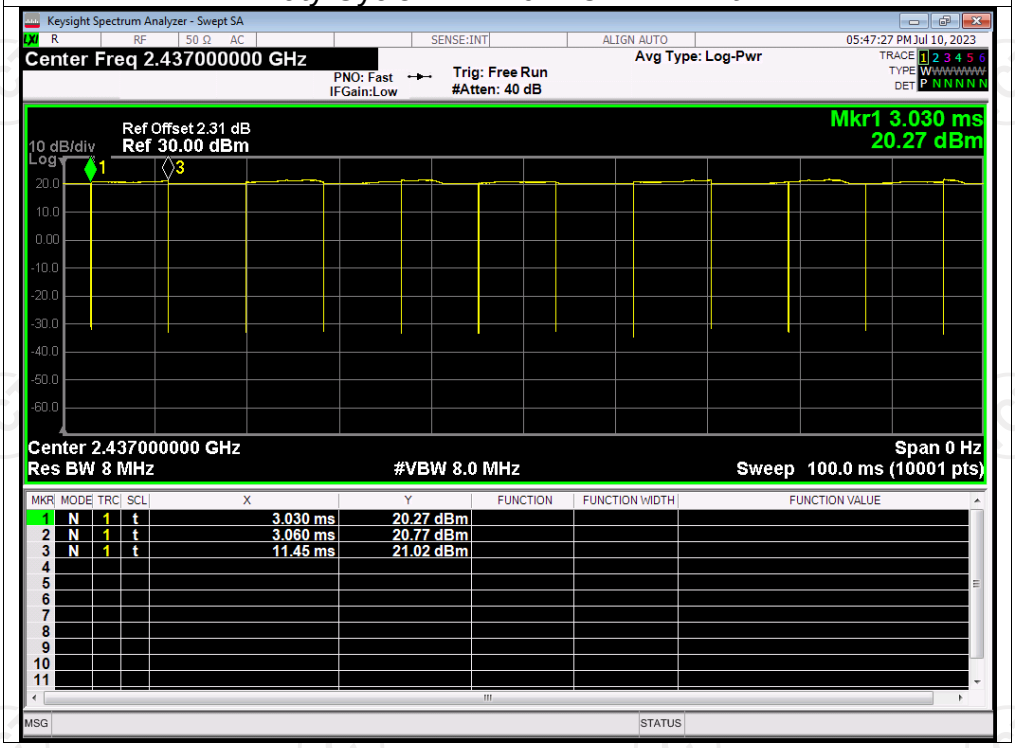
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	99.79	0
NVNT	b	2437	Ant1	99.79	0
NVNT	b	2462	Ant1	99.79	0
NVNT	g	2412	Ant1	98.18	0
NVNT	g	2437	Ant1	98.26	0
NVNT	g	2462	Ant1	98.32	0
NVNT	n20	2412	Ant1	98.12	0
NVNT	n20	2437	Ant1	98.12	0
NVNT	n20	2462	Ant1	98.36	0
NVNT	n40	2422	Ant1	96.5	0.15
NVNT	n40	2437	Ant1	96.5	0.15
NVNT	n40	2452	Ant1	96.41	0.16
NVNT	ax20	2412	Ant1	97.05	0.13
NVNT	ax20	2437	Ant1	97.62	0.10
NVNT	ax20	2462	Ant1	97.57	0.11
NVNT	ax40	2422	Ant1	95.59	0.20
NVNT	ax40	2437	Ant1	95.61	0.19
NVNT	ax40	2452	Ant1	95.66	0.19

Test Graphs

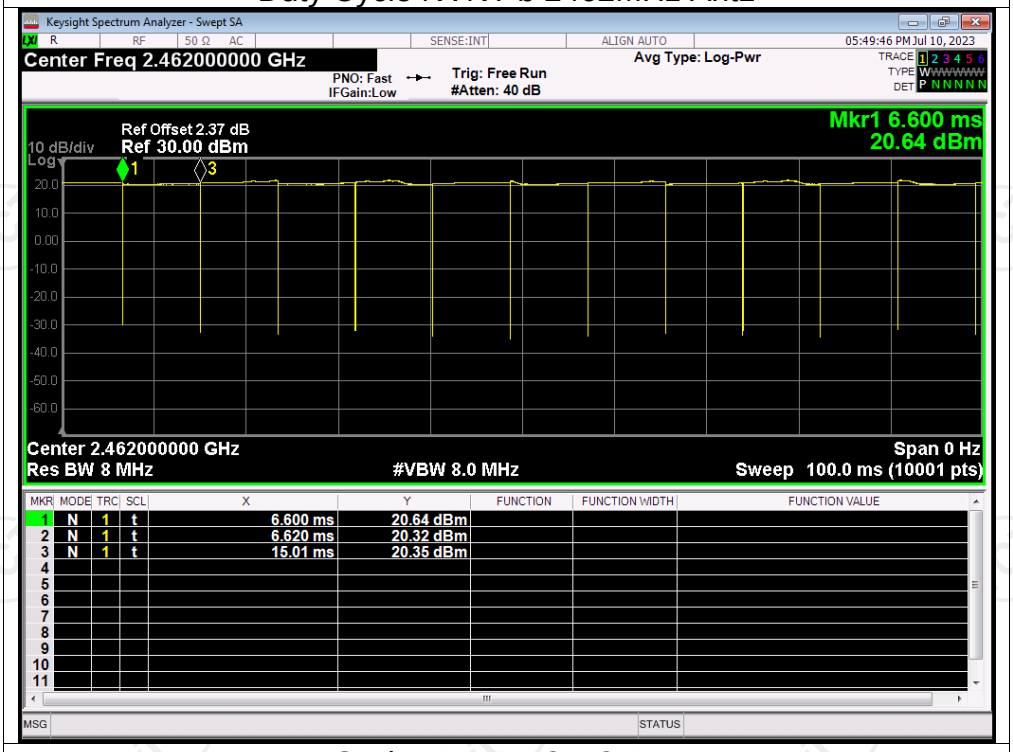
Duty Cycle NVNT b 2412MHz Ant1



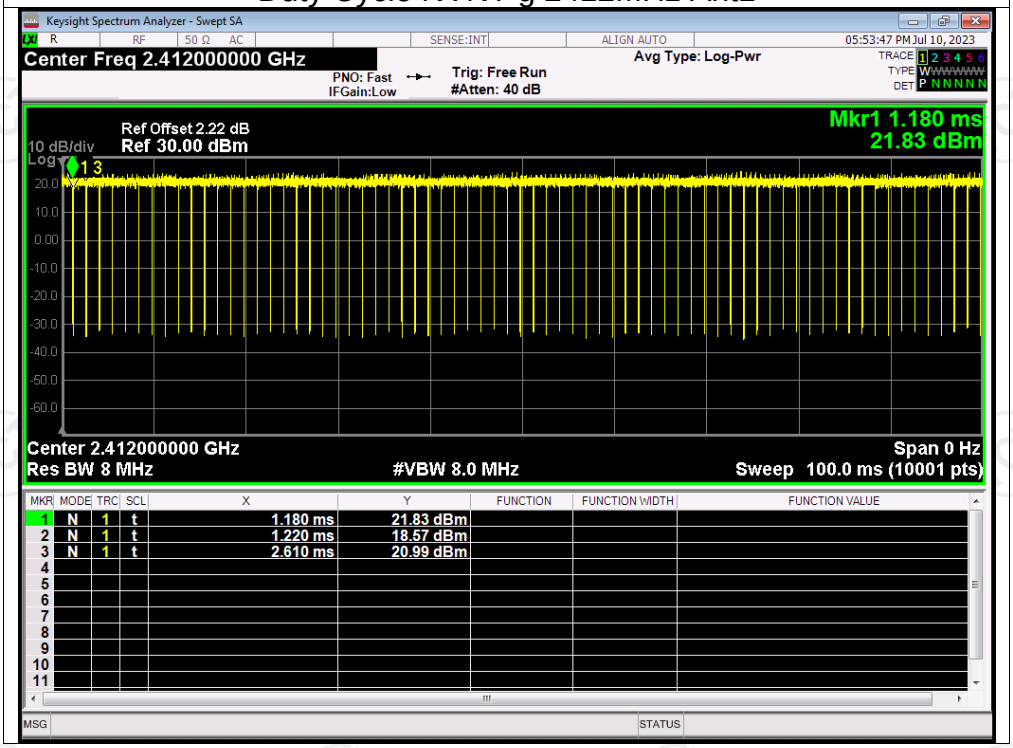
Duty Cycle NVNT b 2437MHz Ant1



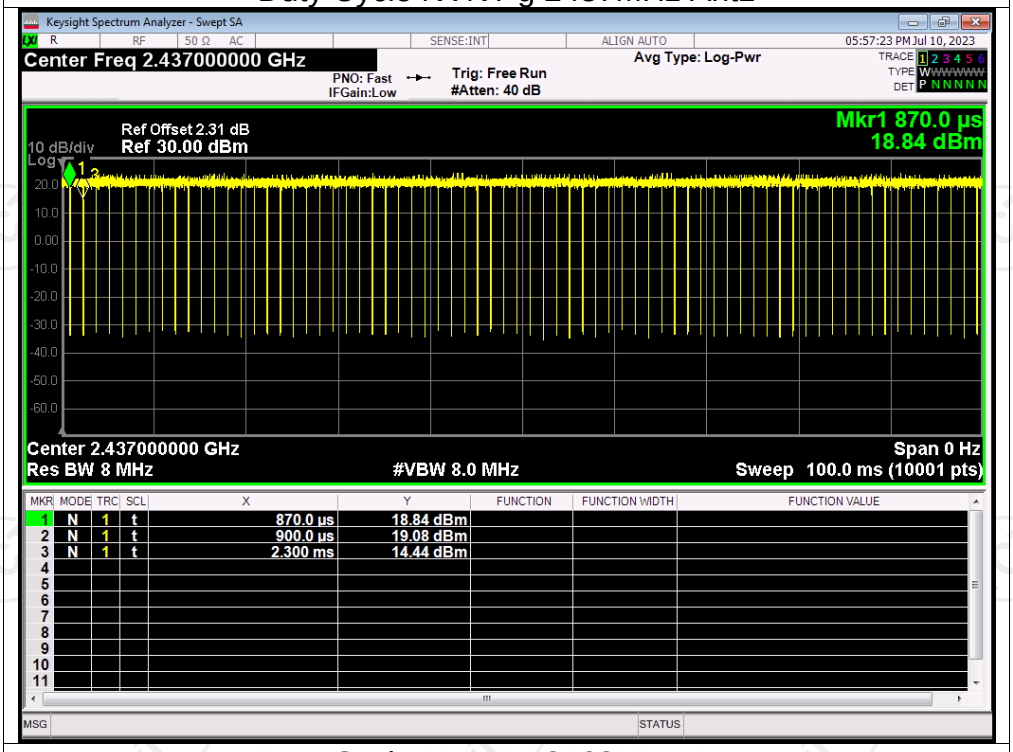
Duty Cycle NVNT b 2462MHz Ant1



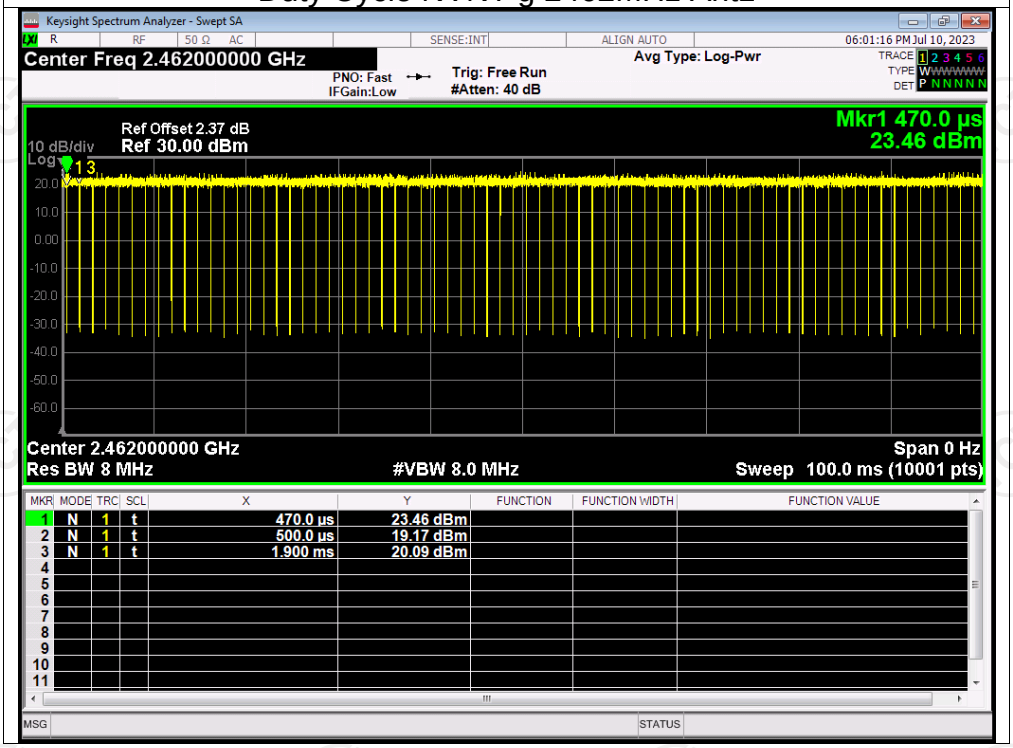
Duty Cycle NVNT g 2412MHz Ant1



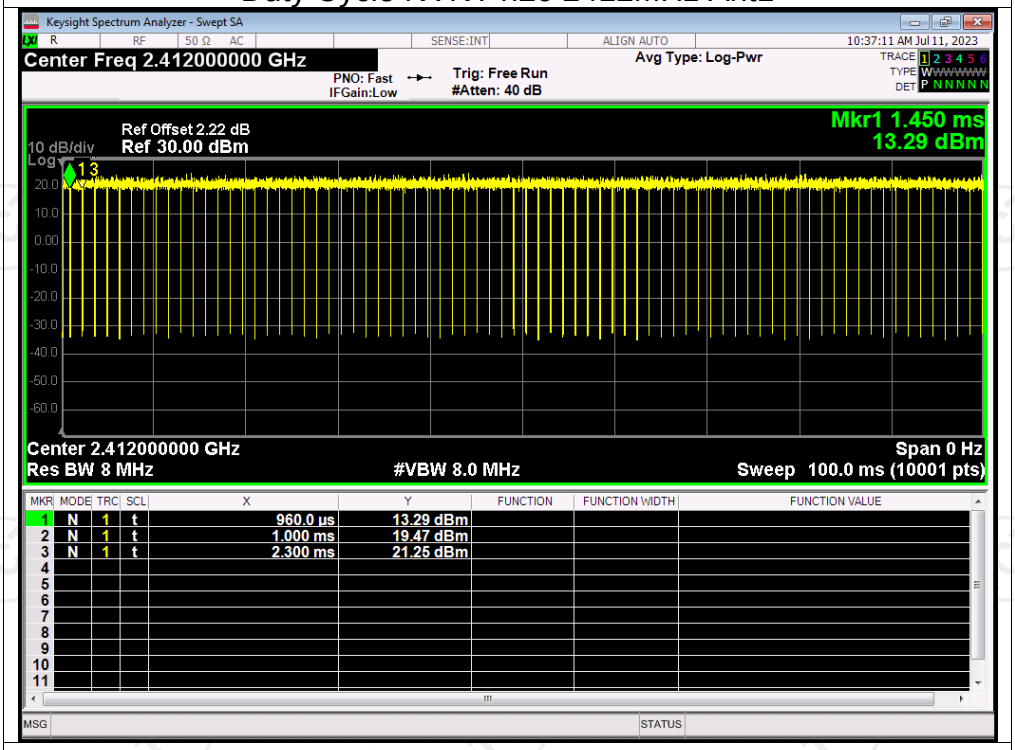
Duty Cycle NVNT g 2437MHz Ant1



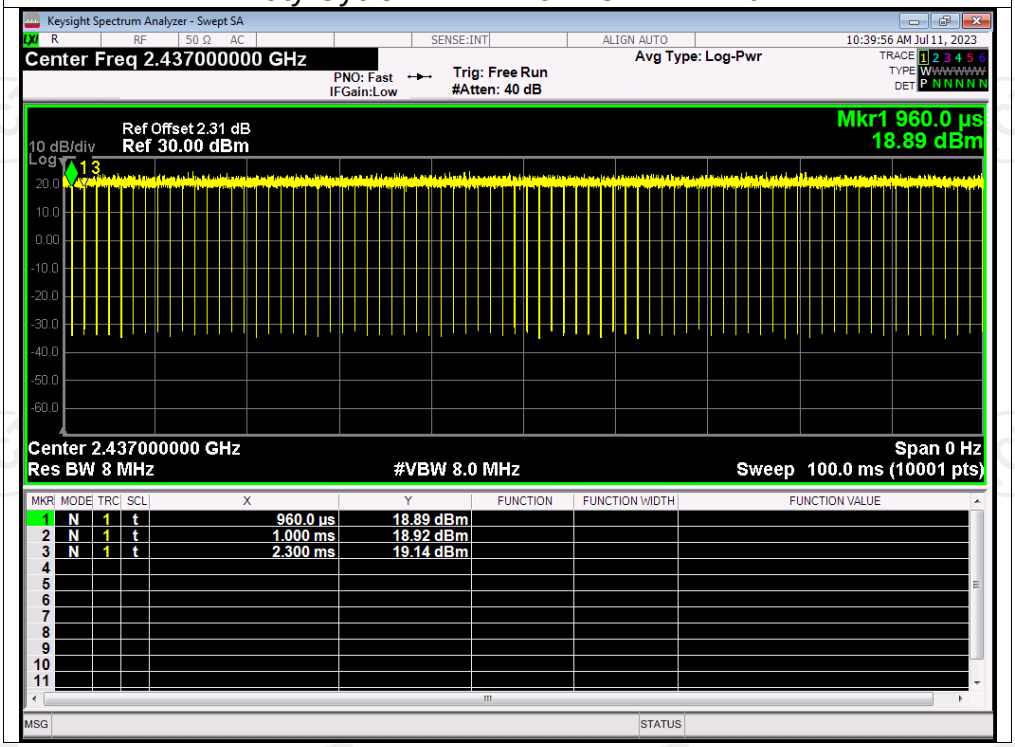
Duty Cycle NVNT g 2462MHz Ant1



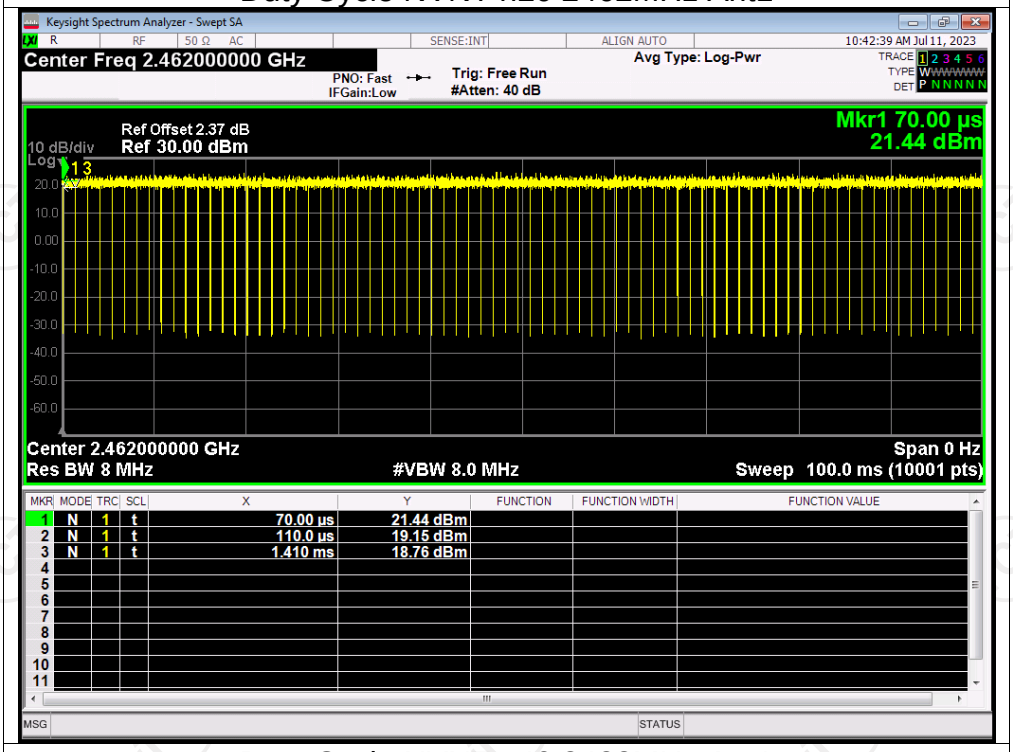
Duty Cycle NVNT n20 2412MHz Ant1



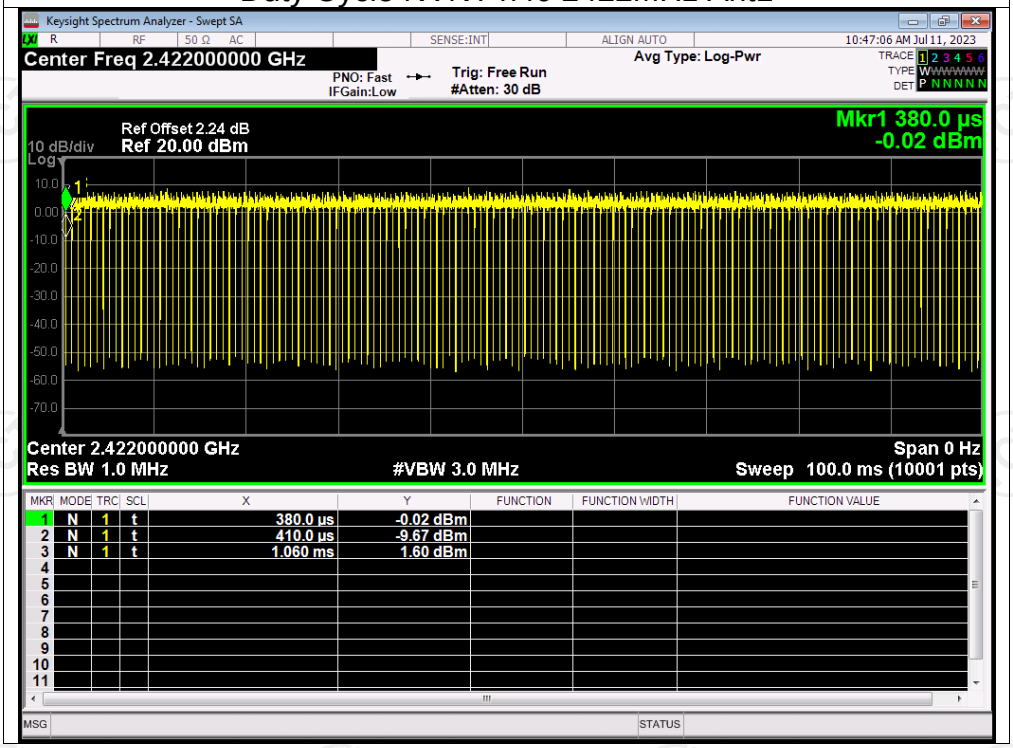
Duty Cycle NVNT n20 2437MHz Ant1



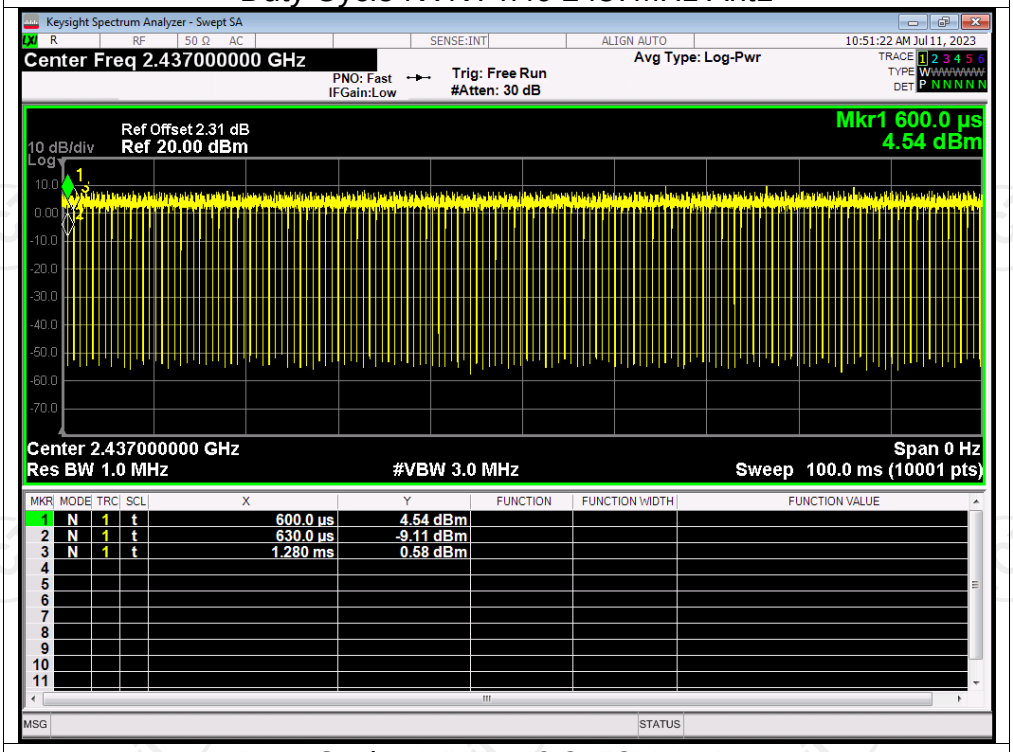
Duty Cycle NVNT n20 2462MHz Ant1



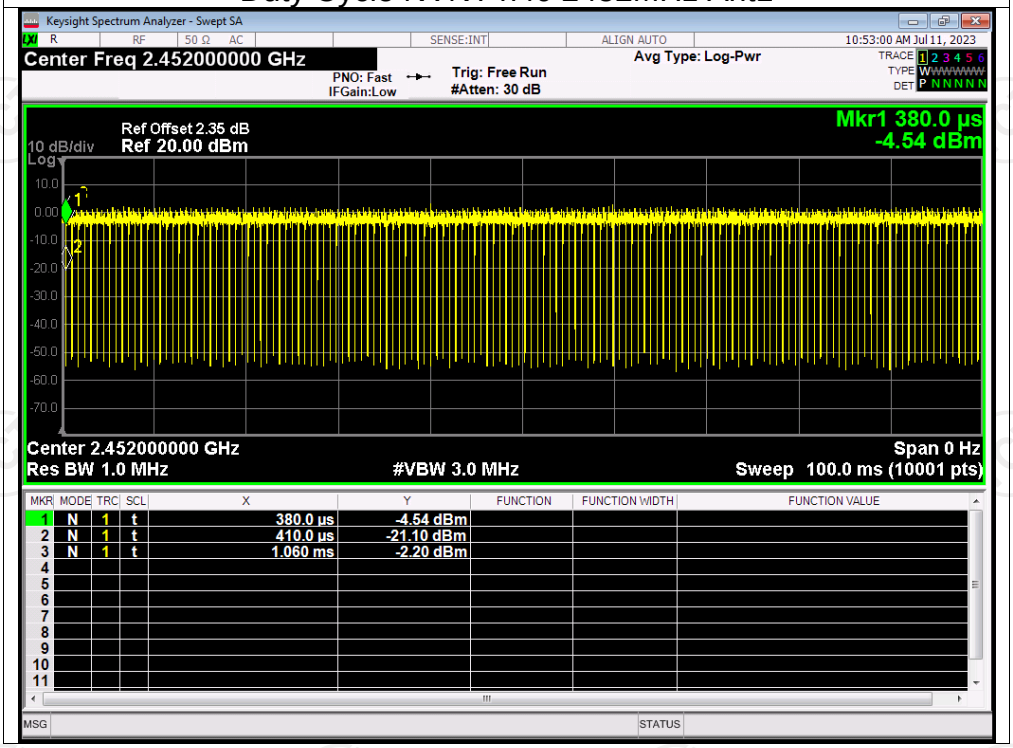
Duty Cycle NVNT n40 2422MHz Ant1



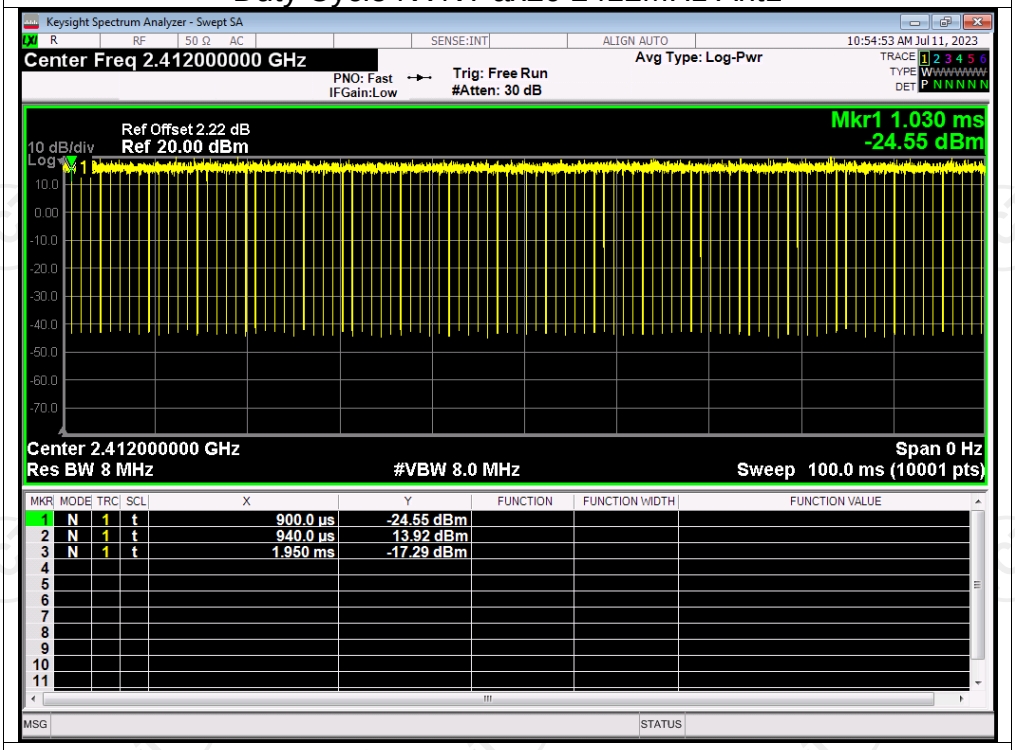
Duty Cycle NVNT n40 2437MHz Ant1



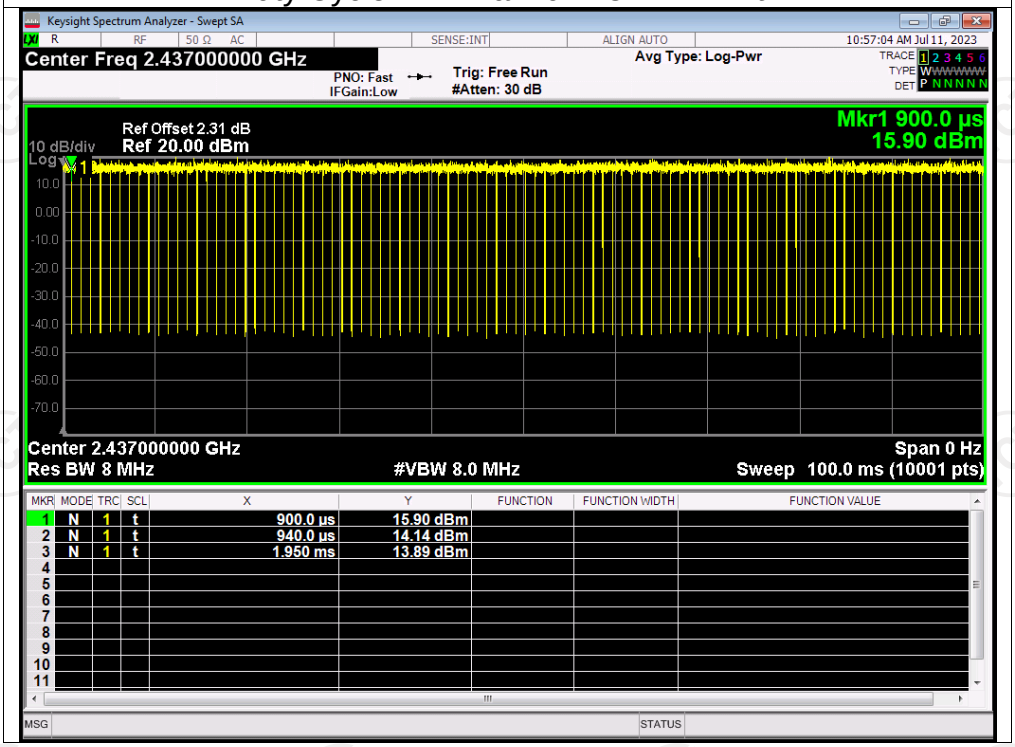
Duty Cycle NVNT n40 2452MHz Ant1



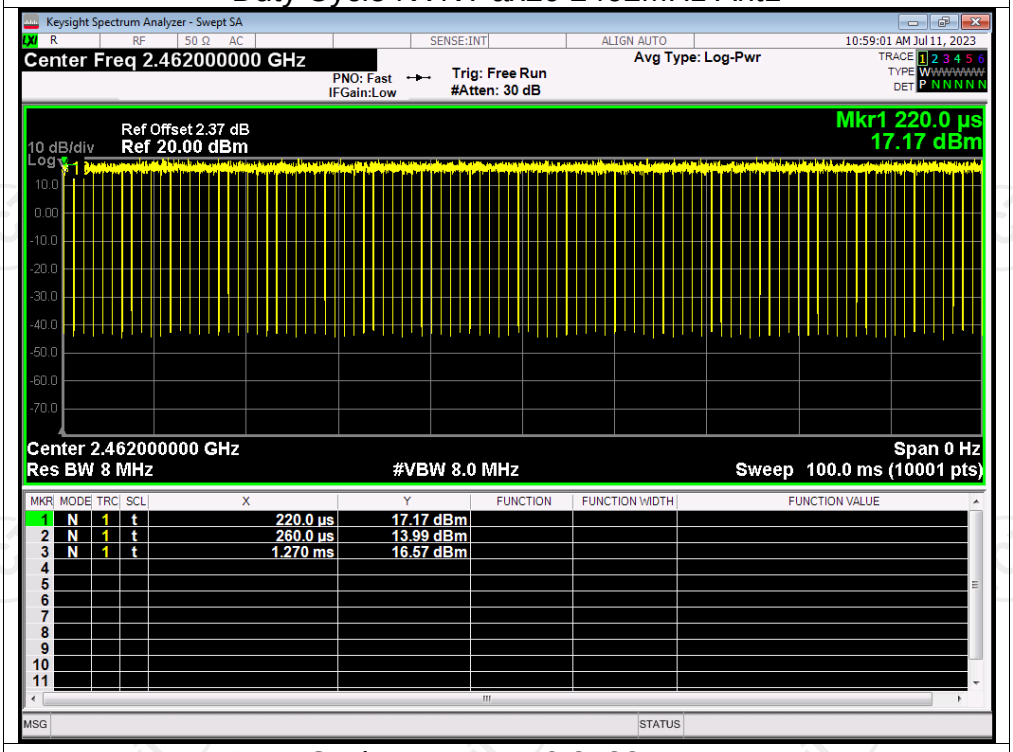
Duty Cycle NVNT ax20 2412MHz Ant1



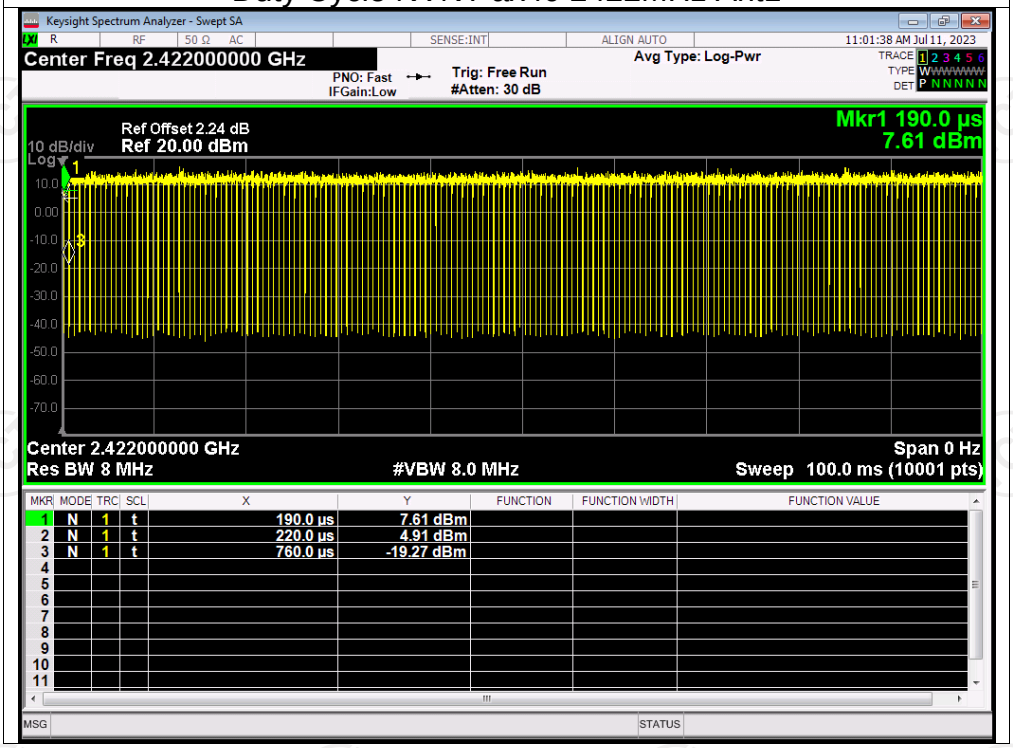
Duty Cycle NVNT ax20 2437MHz Ant1



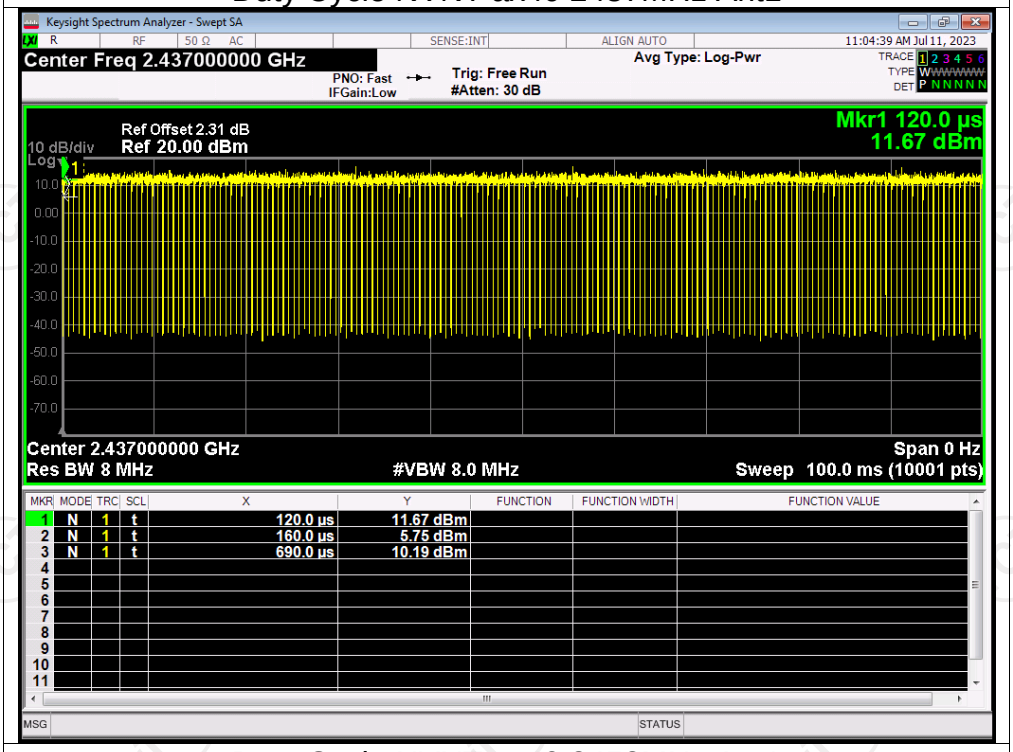
Duty Cycle NVNT ax20 2462MHz Ant1



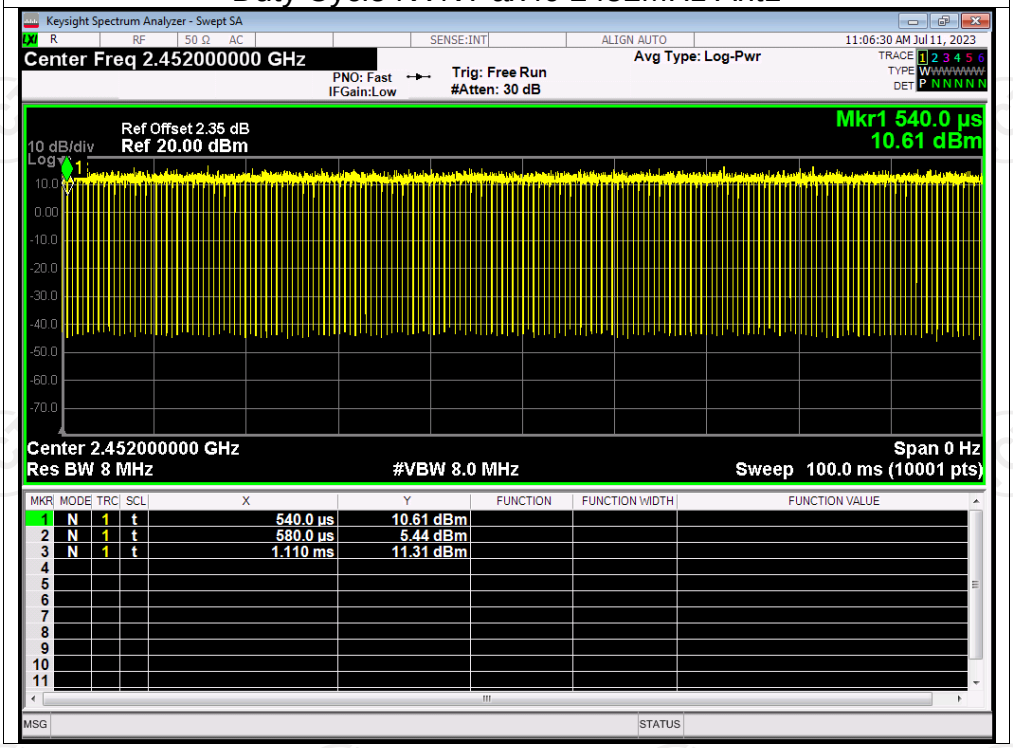
Duty Cycle NVNT ax40 2422MHz Ant1



Duty Cycle NVNT ax40 2437MHz Ant1



Duty Cycle NVNT ax40 2452MHz Ant1

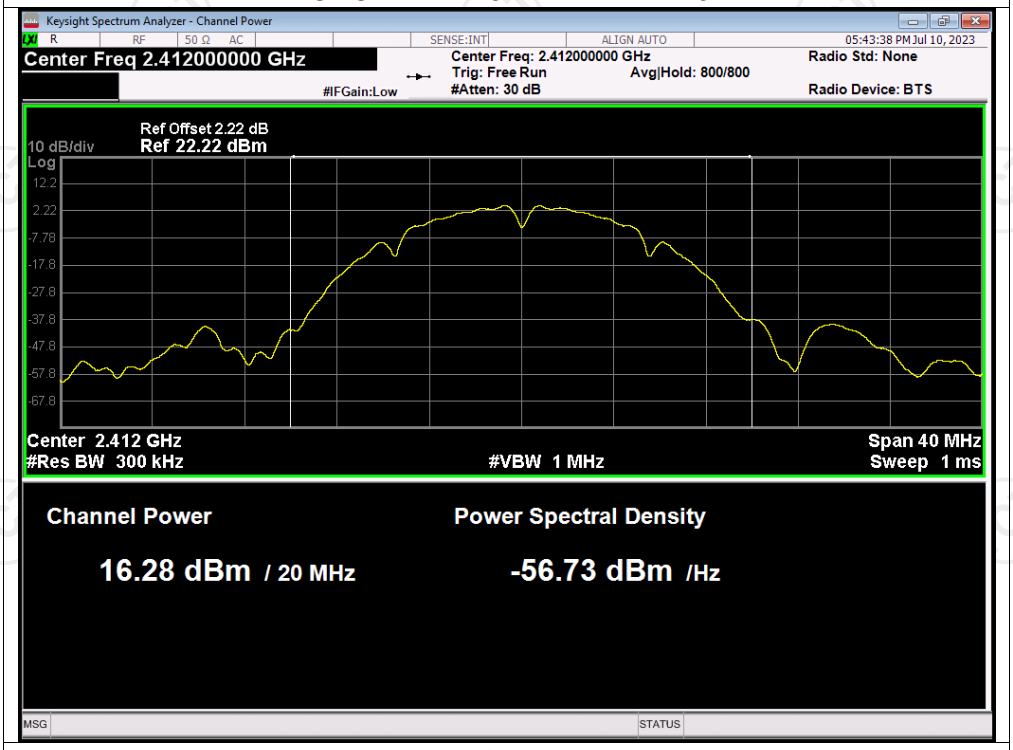


Maximum Conducted Output Power

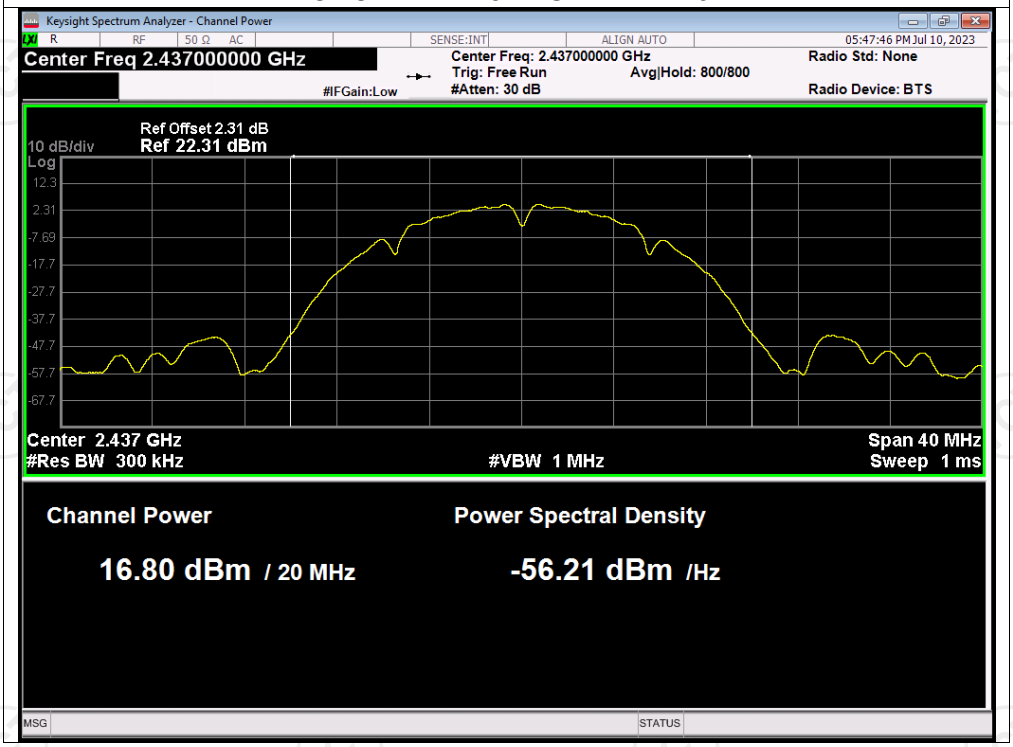
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.28	0	16.28	30	Pass
NVNT	b	2437	Ant1	16.80	0	16.80	30	Pass
NVNT	b	2462	Ant1	16.88	0	16.88	30	Pass
NVNT	g	2412	Ant1	16.66	0	16.66	30	Pass
NVNT	g	2437	Ant1	16.91	0	16.91	30	Pass
NVNT	g	2462	Ant1	16.98	0	16.98	30	Pass
NVNT	n20	2412	Ant1	14.58	0	14.58	30	Pass
NVNT	n20	2437	Ant1	16.53	0	16.53	30	Pass
NVNT	n20	2462	Ant1	16.64	0	16.64	30	Pass
NVNT	n40	2422	Ant1	16.33	0.15	16.48	30	Pass
NVNT	n40	2437	Ant1	16.75	0.15	16.90	30	Pass
NVNT	n40	2452	Ant1	15.32	0.16	15.48	30	Pass
NVNT	ax20	2412	Ant1	16.90	0.13	17.03	30	Pass
NVNT	ax20	2437	Ant1	17.10	0.10	17.20	30	Pass
NVNT	ax20	2462	Ant1	17.36	0.11	17.47	30	Pass
NVNT	ax40	2422	Ant1	16.03	0.20	16.23	30	Pass
NVNT	ax40	2437	Ant1	16.41	0.19	16.60	30	Pass
NVNT	ax40	2452	Ant1	16.50	0.19	16.69	30	Pass

Test Graphs

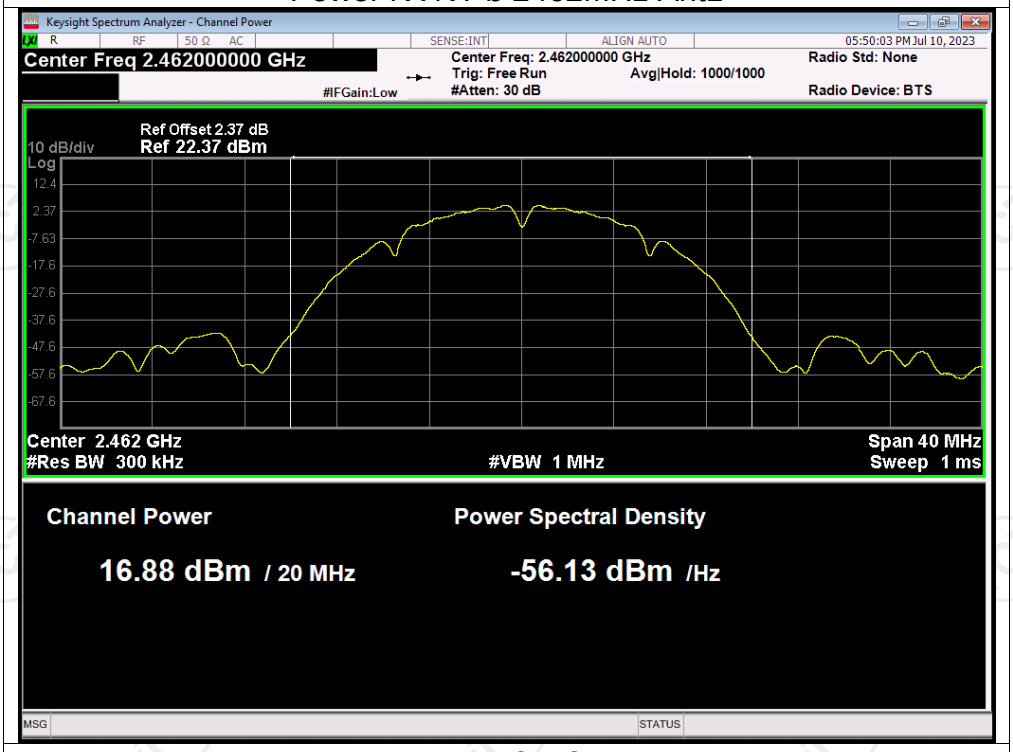
Power NVNT b 2412MHz Ant1



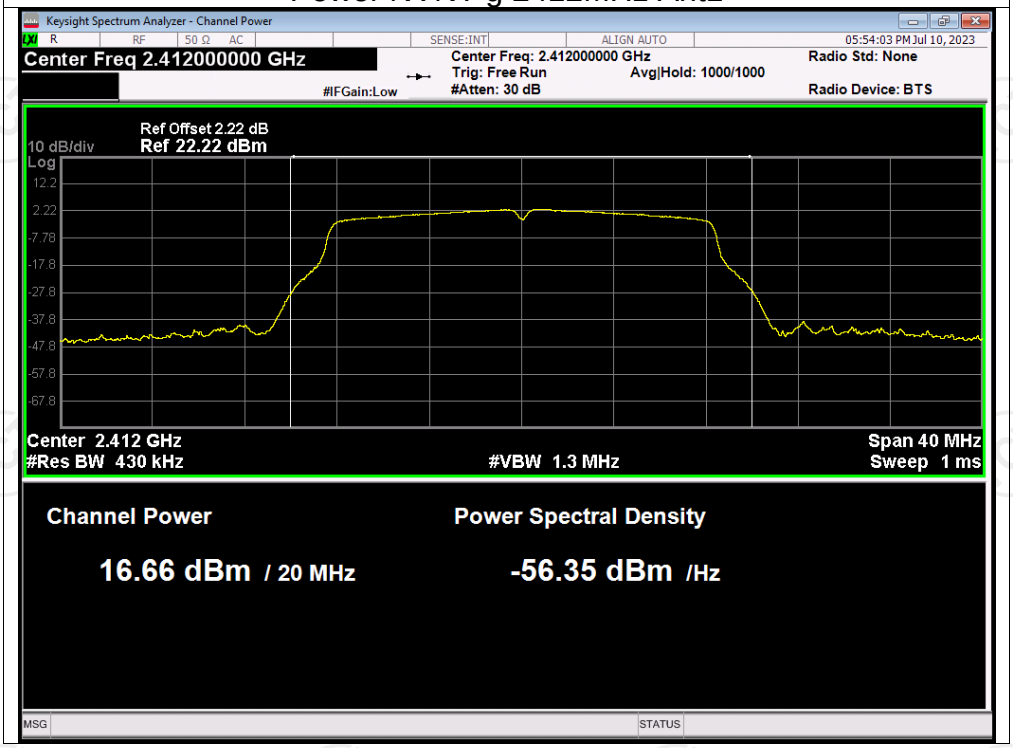
Power NVNT b 2437MHz Ant1



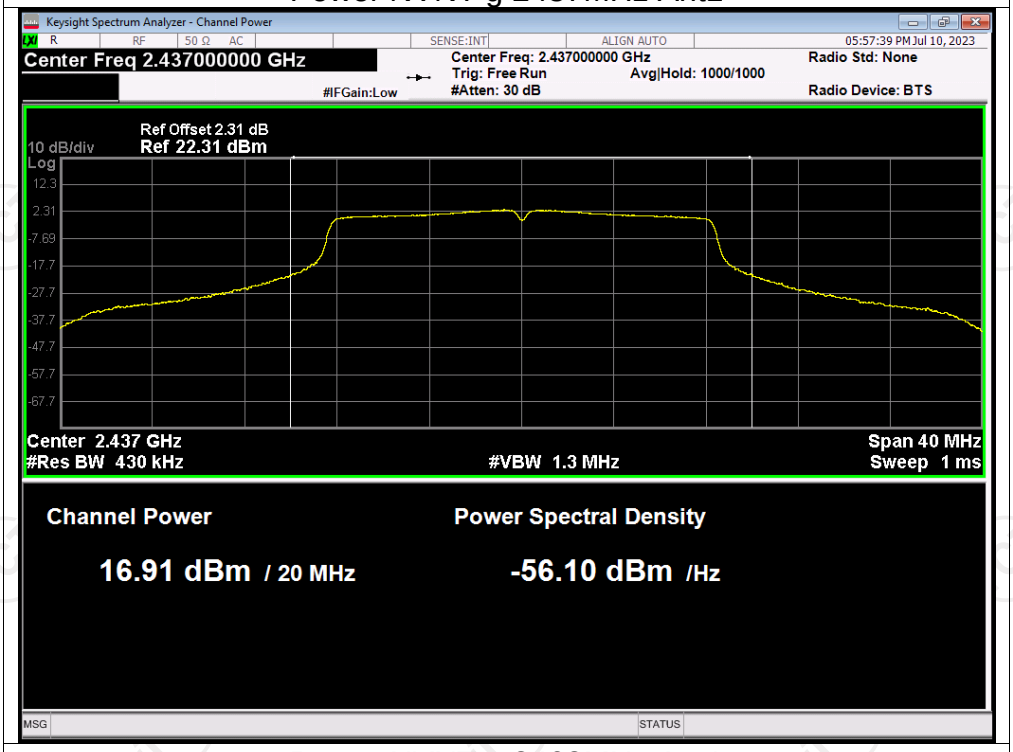
Power NVNT b 2462MHz Ant1



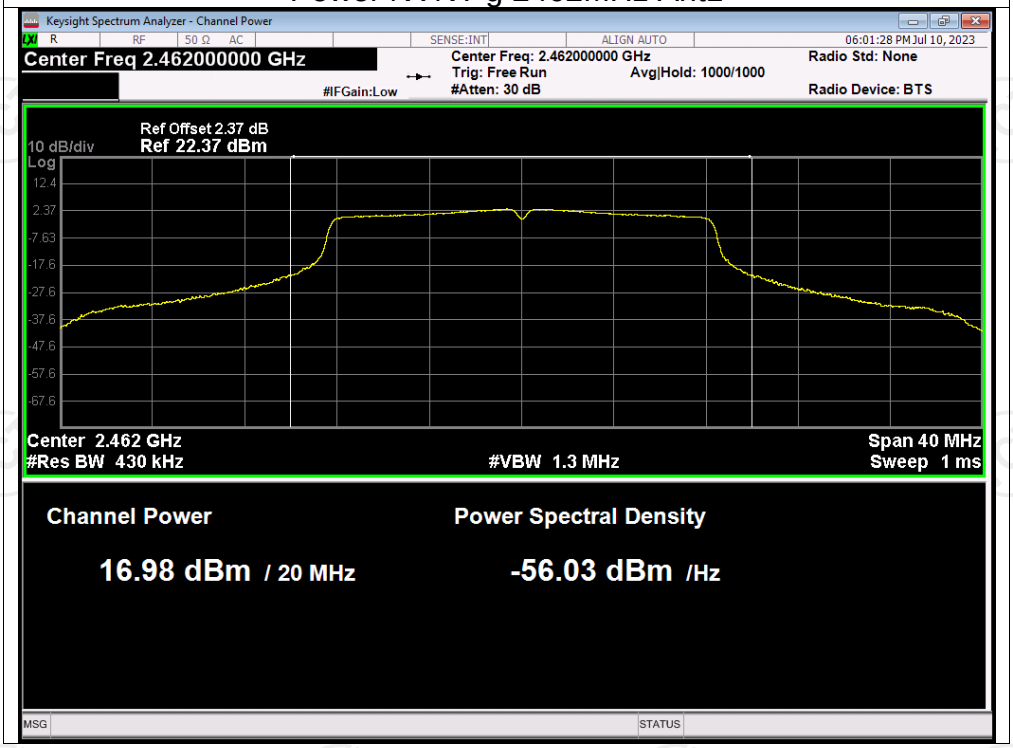
Power NVNT g 2412MHz Ant1



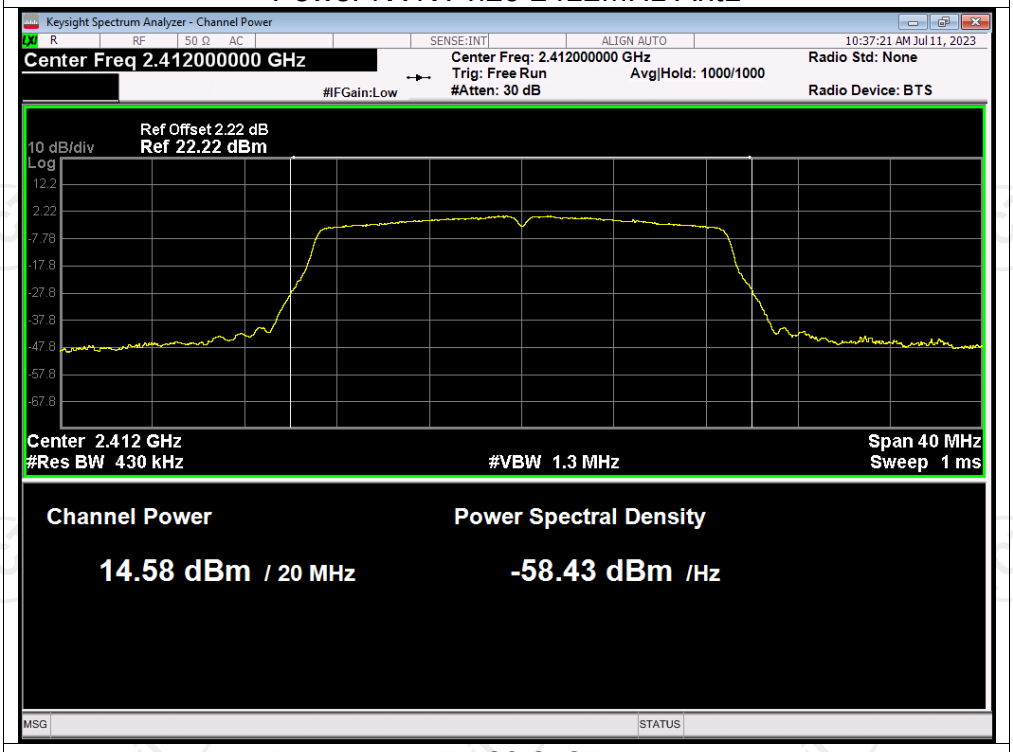
Power NVNT g 2437MHz Ant1



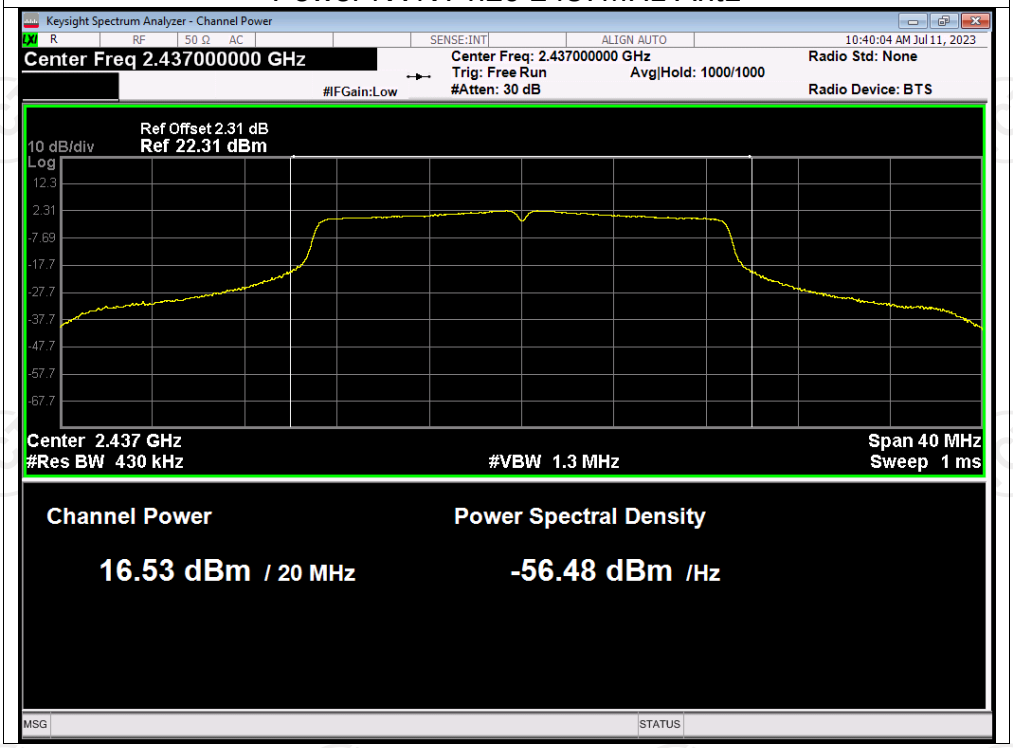
Power NVNT g 2462MHz Ant1



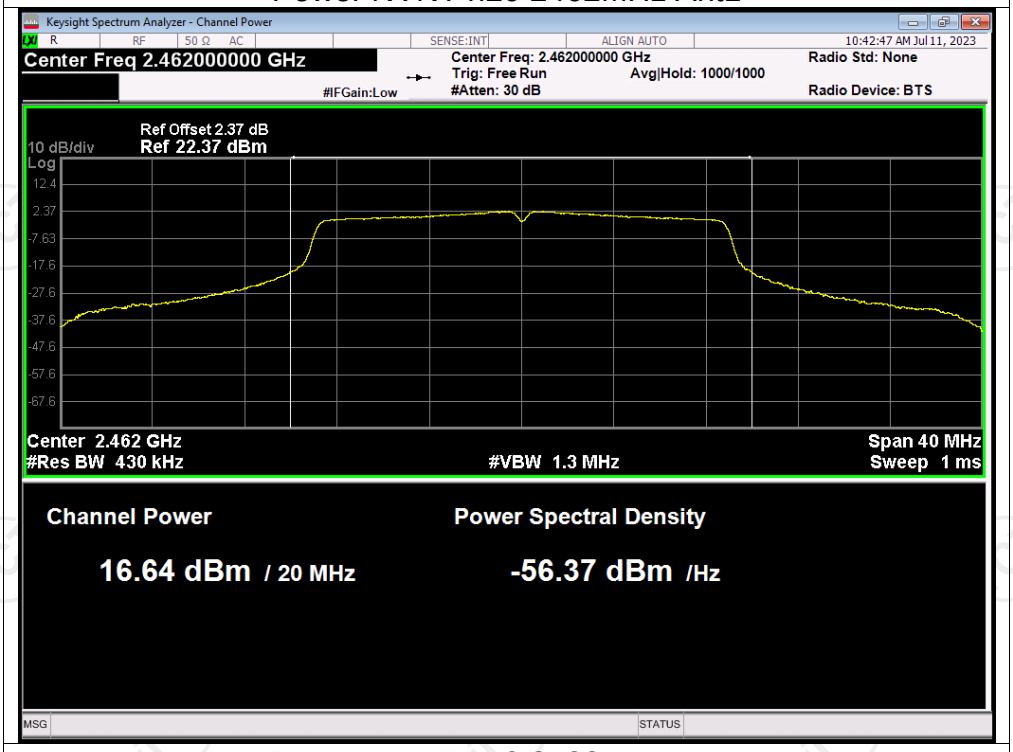
Power NVNT n20 2412MHz Ant1



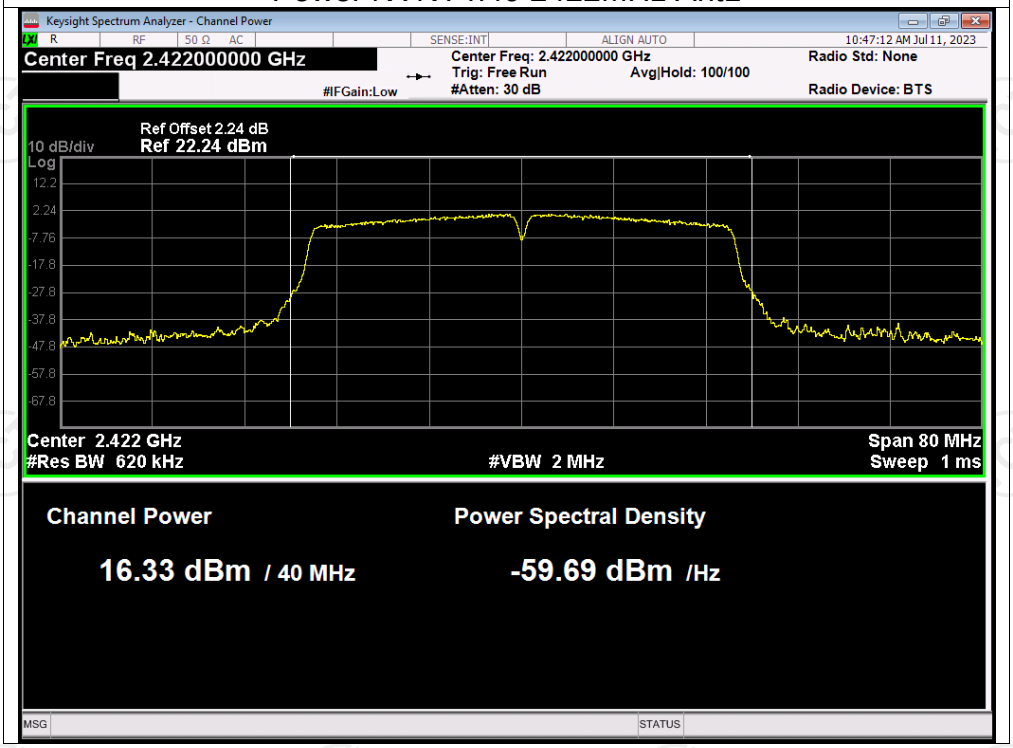
Power NVNT n20 2437MHz Ant1



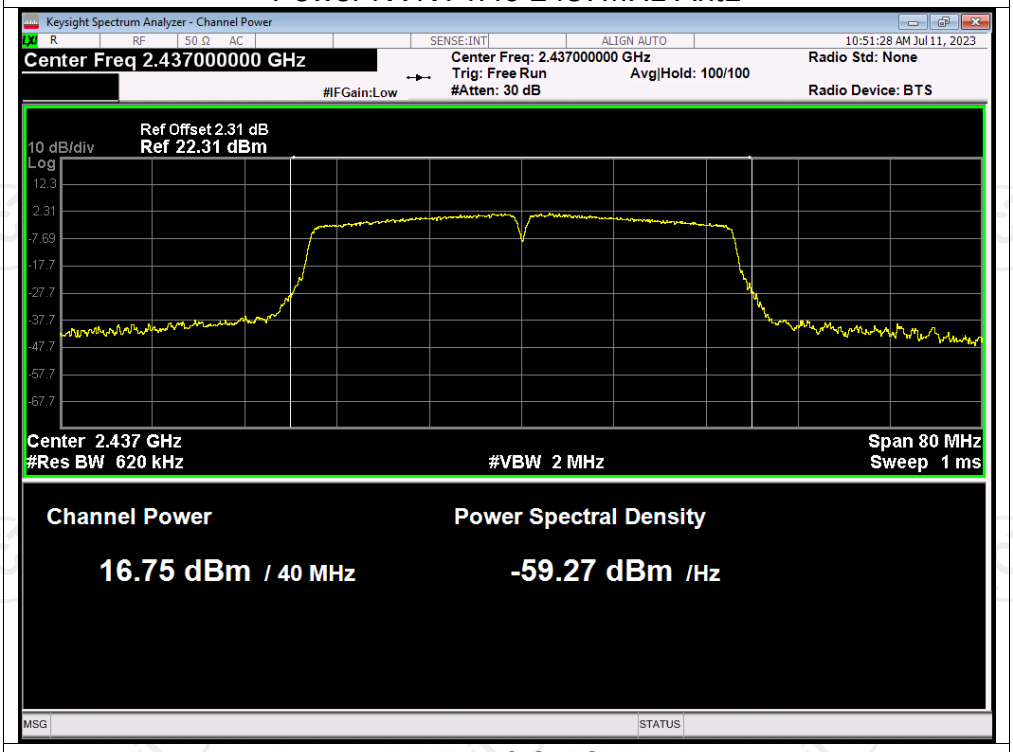
Power NVNT n20 2462MHz Ant1



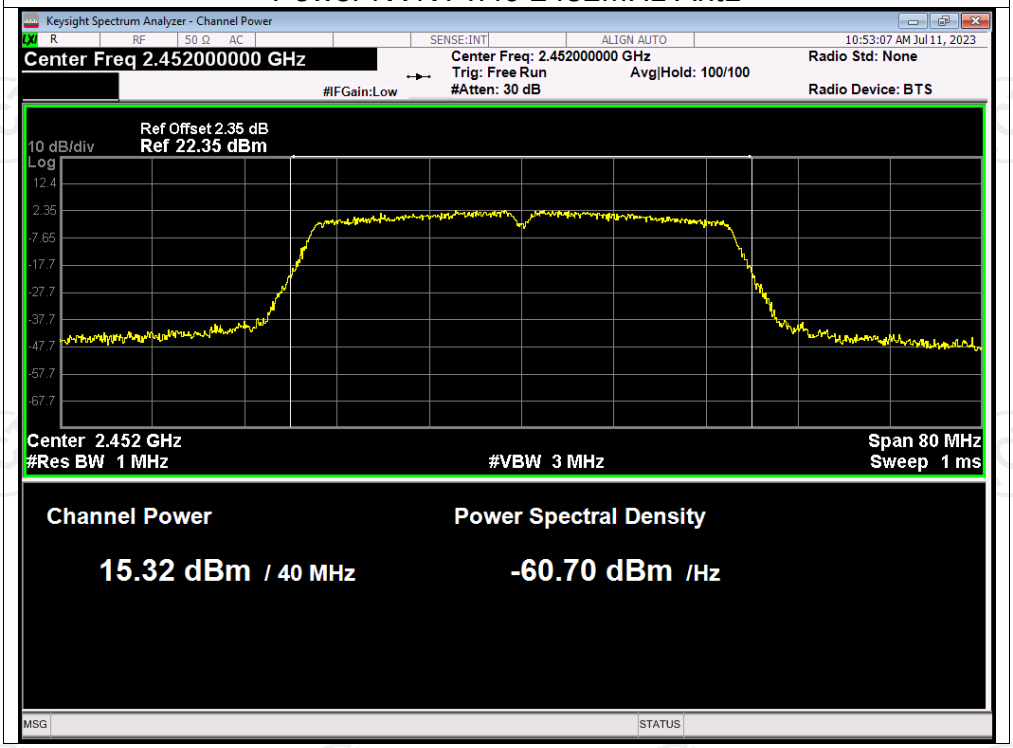
Power NVNT n40 2422MHz Ant1



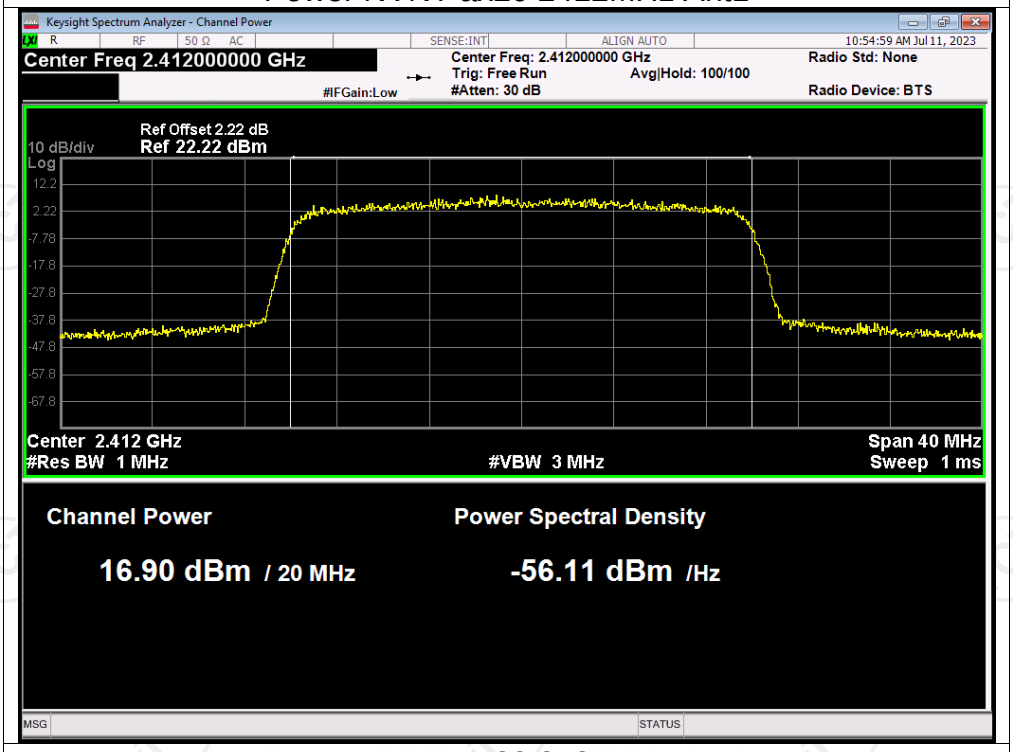
Power NVNT n40 2437MHz Ant1



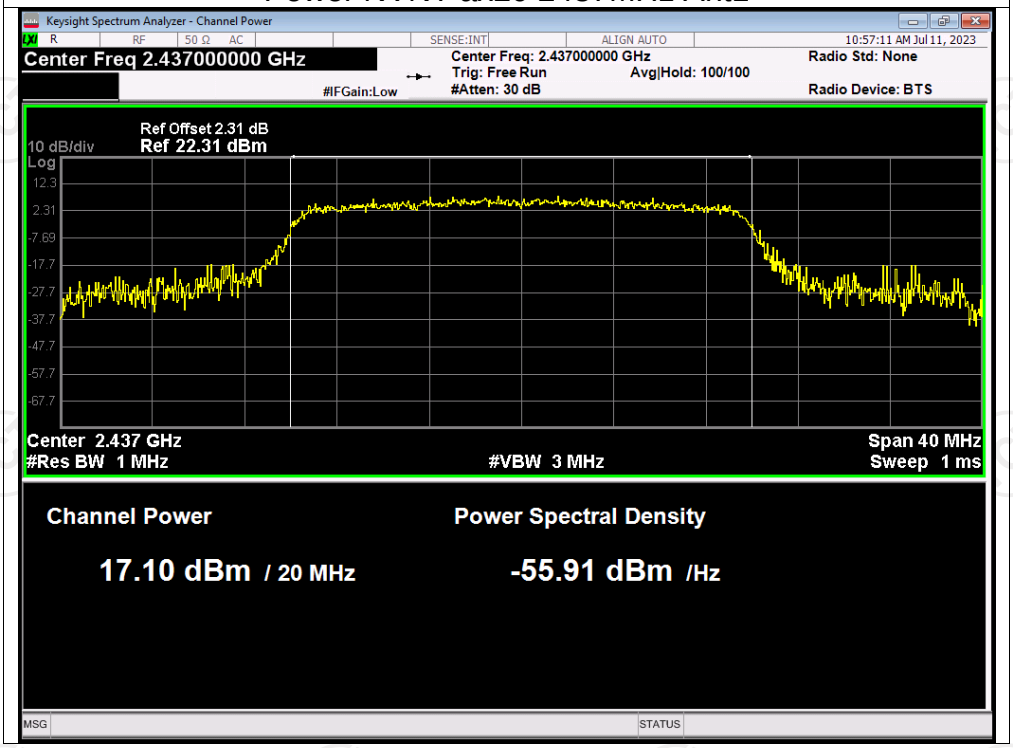
Power NVNT n40 2452MHz Ant1



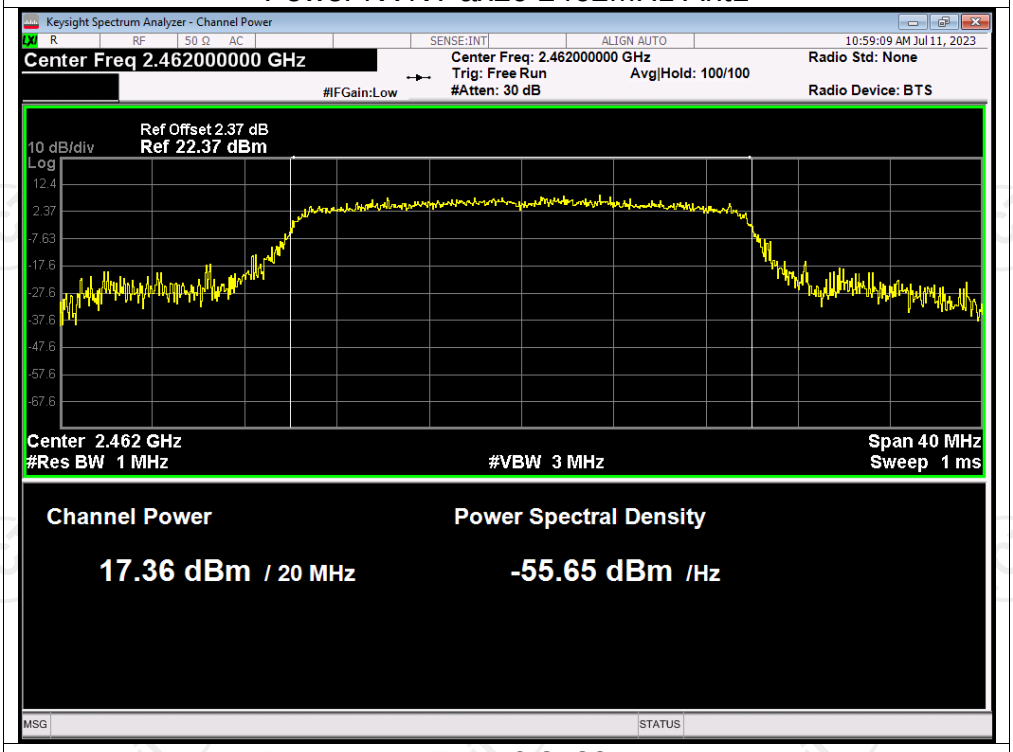
Power NVNT ax20 2412MHz Ant1



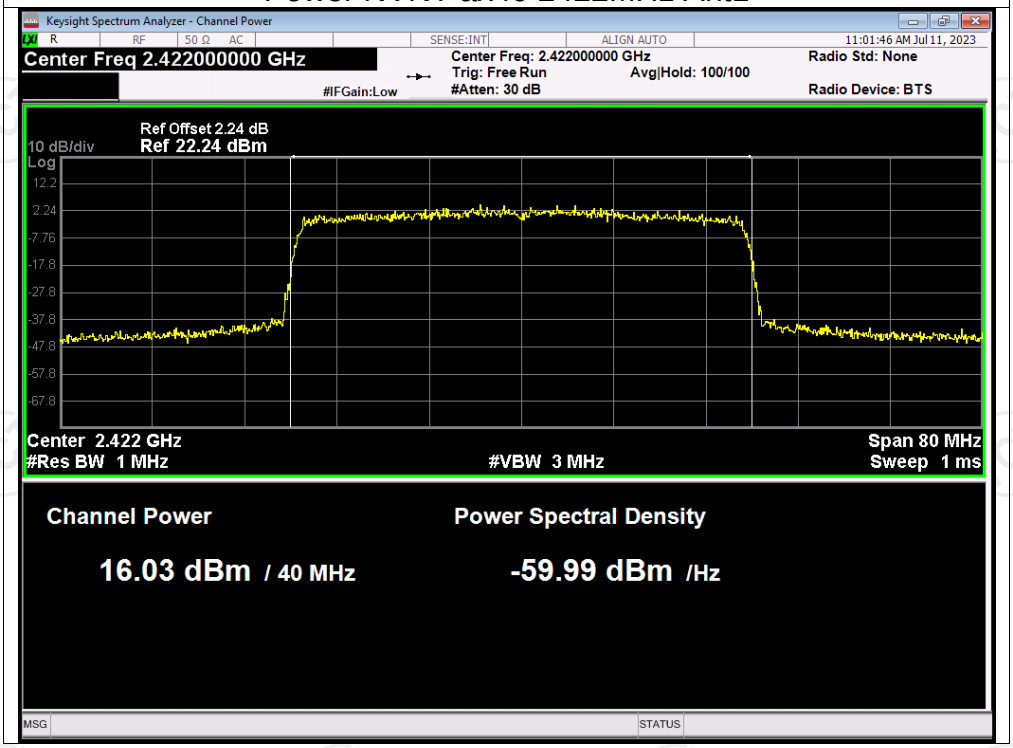
Power NVNT ax20 2437MHz Ant1



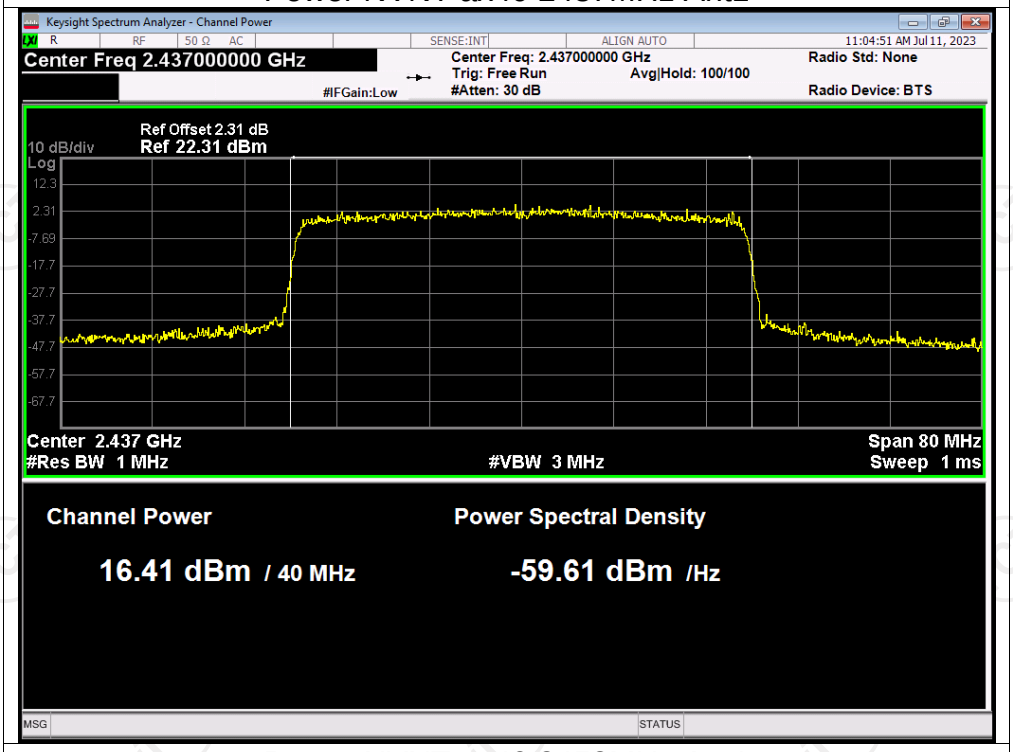
Power NVNT ax20 2462MHz Ant1



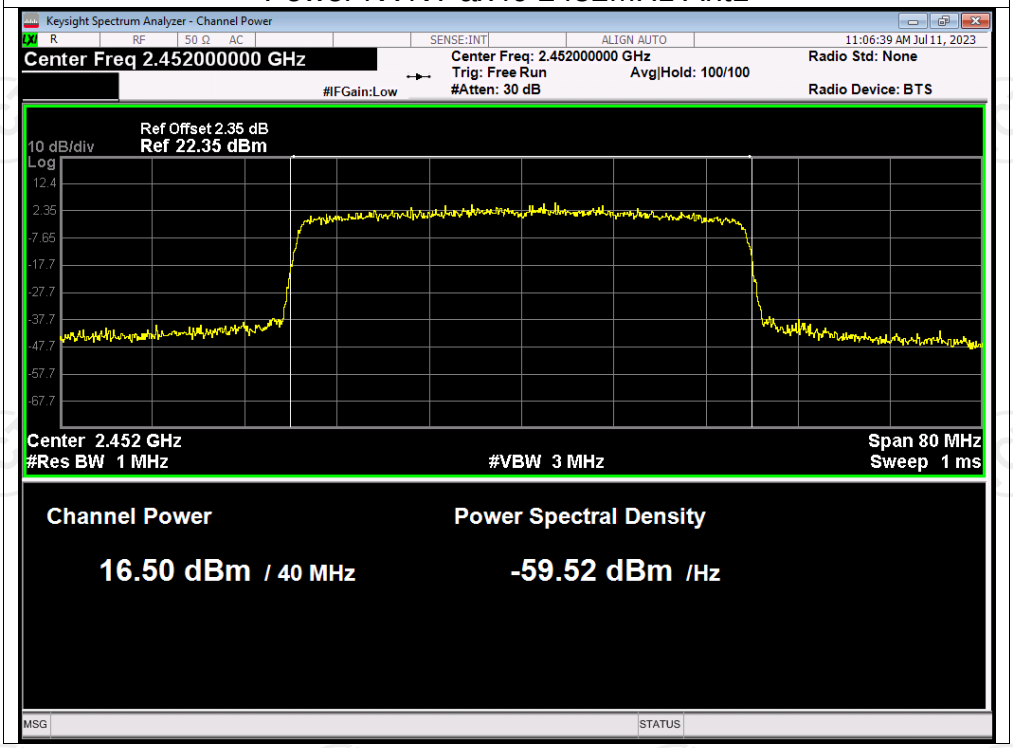
Power NVNT ax40 2422MHz Ant1



Power NVNT ax40 2437MHz Ant1



Power NVNT ax40 2452MHz Ant1

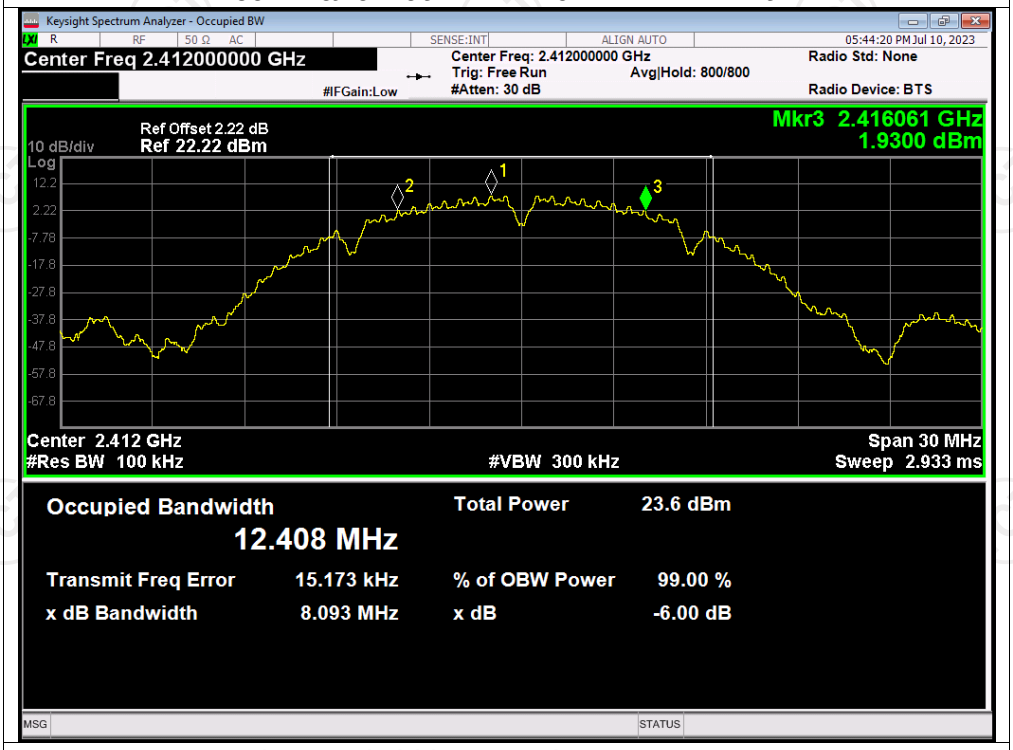


-6dB Bandwidth

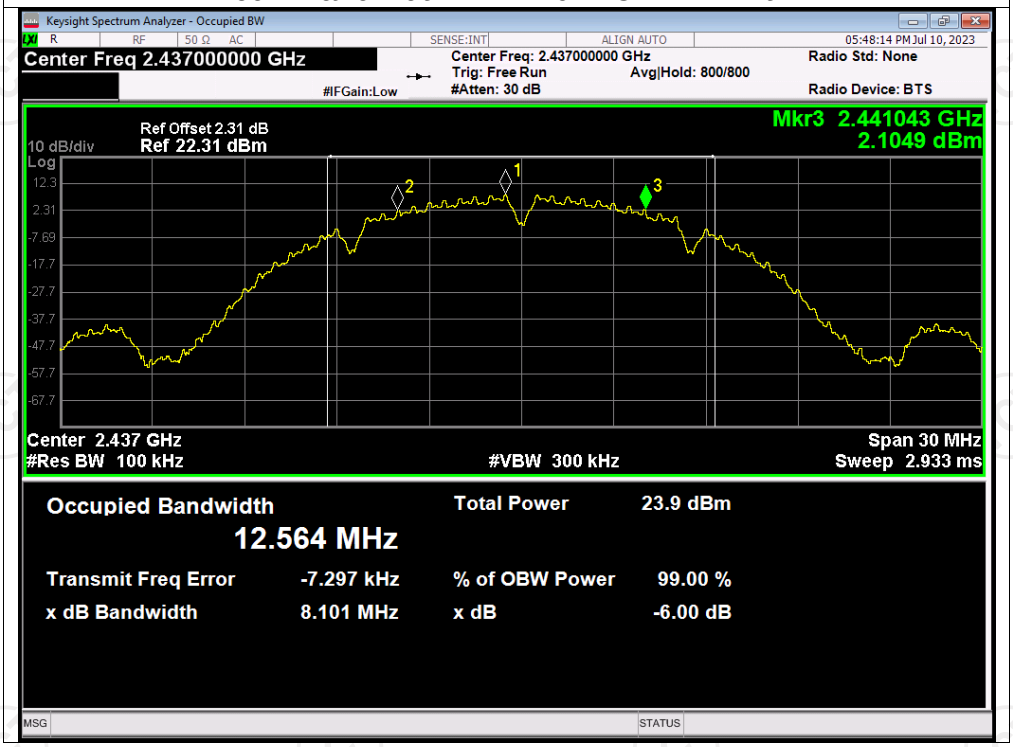
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.093	0.5	Pass
NVNT	b	2437	Ant1	8.101	0.5	Pass
NVNT	b	2462	Ant1	8.102	0.5	Pass
NVNT	g	2412	Ant1	15.109	0.5	Pass
NVNT	g	2437	Ant1	15.139	0.5	Pass
NVNT	g	2462	Ant1	15.137	0.5	Pass
NVNT	n20	2412	Ant1	15.112	0.5	Pass
NVNT	n20	2437	Ant1	15.131	0.5	Pass
NVNT	n20	2462	Ant1	15.113	0.5	Pass
NVNT	n40	2422	Ant1	35.109	0.5	Pass
NVNT	n40	2437	Ant1	35.072	0.5	Pass
NVNT	n40	2452	Ant1	35.093	0.5	Pass
NVNT	ax20	2412	Ant1	17.550	0.5	Pass
NVNT	ax20	2437	Ant1	17.923	0.5	Pass
NVNT	ax20	2462	Ant1	16.472	0.5	Pass
NVNT	ax40	2422	Ant1	35.832	0.5	Pass
NVNT	ax40	2437	Ant1	36.619	0.5	Pass
NVNT	ax40	2452	Ant1	37.152	0.5	Pass

Test Graphs

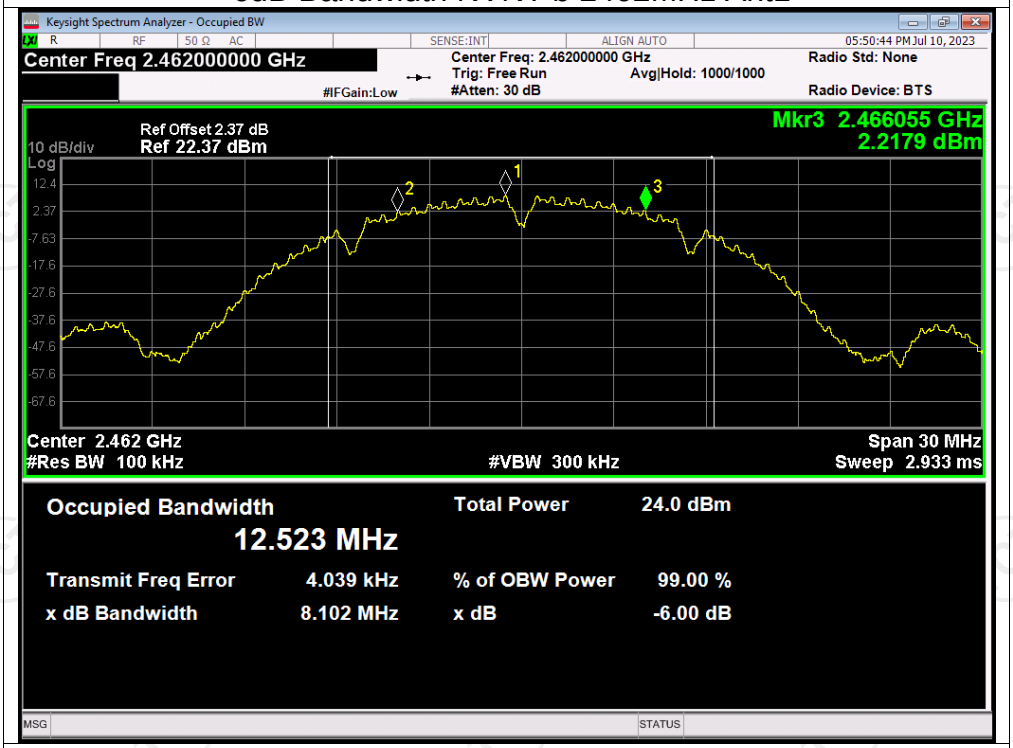
-6dB Bandwidth NVNT b 2412MHz Ant1



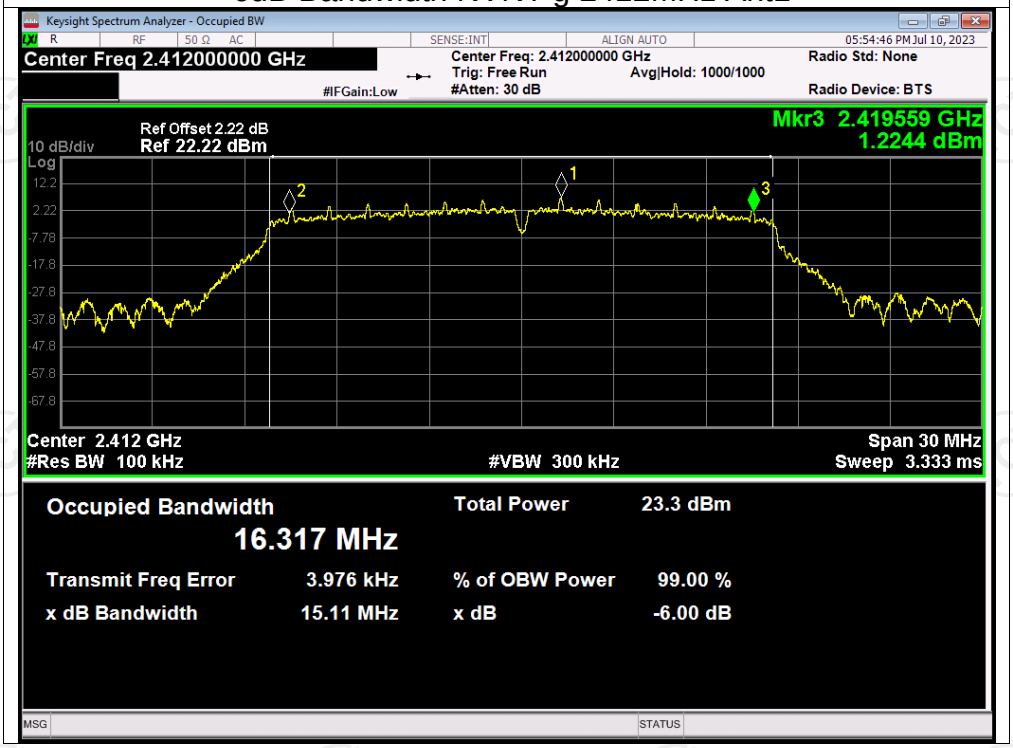
-6dB Bandwidth NVNT b 2437MHz Ant1



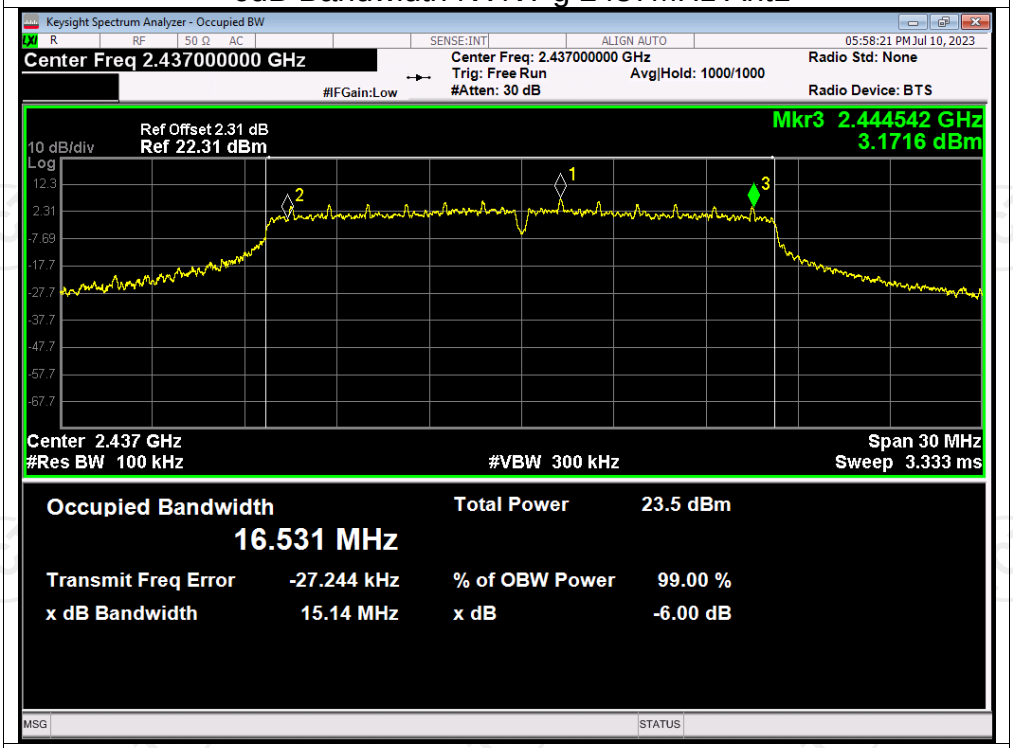
-6dB Bandwidth NVNT b 2462MHz Ant1



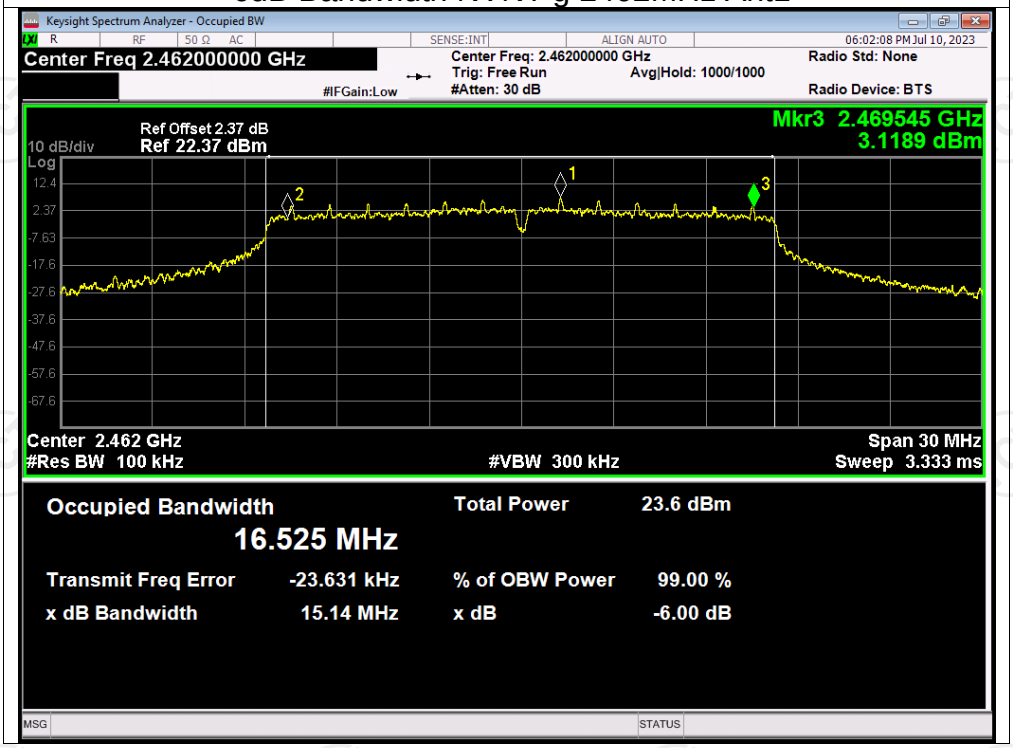
-6dB Bandwidth NVNT g 2412MHz Ant1



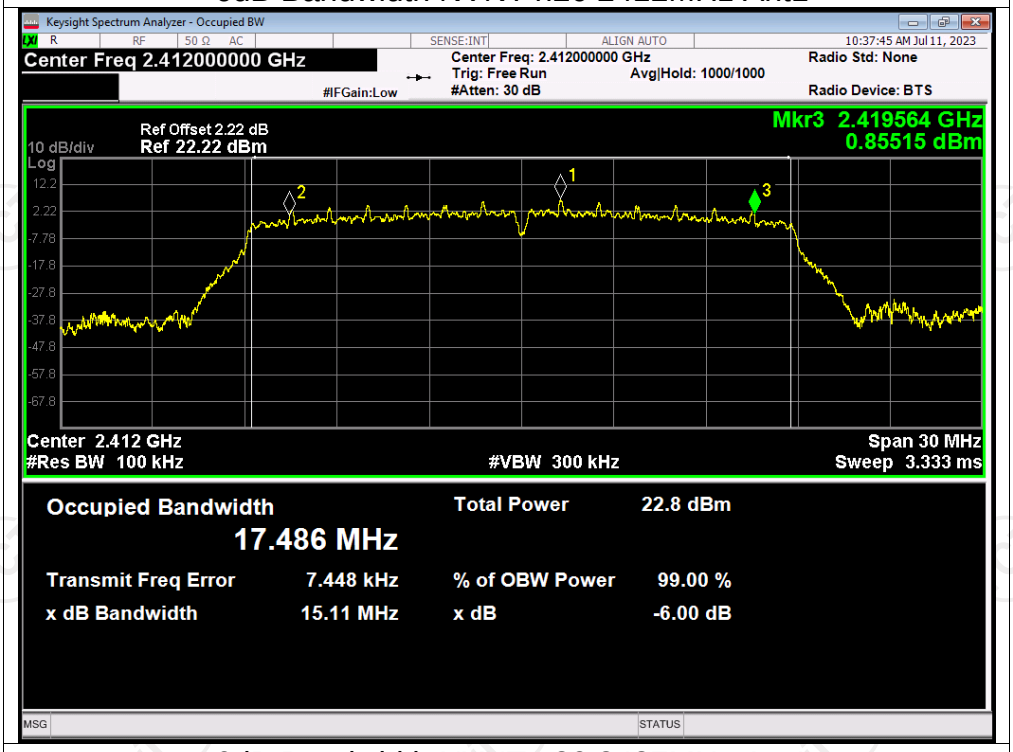
-6dB Bandwidth NVNT g 2437MHz Ant1



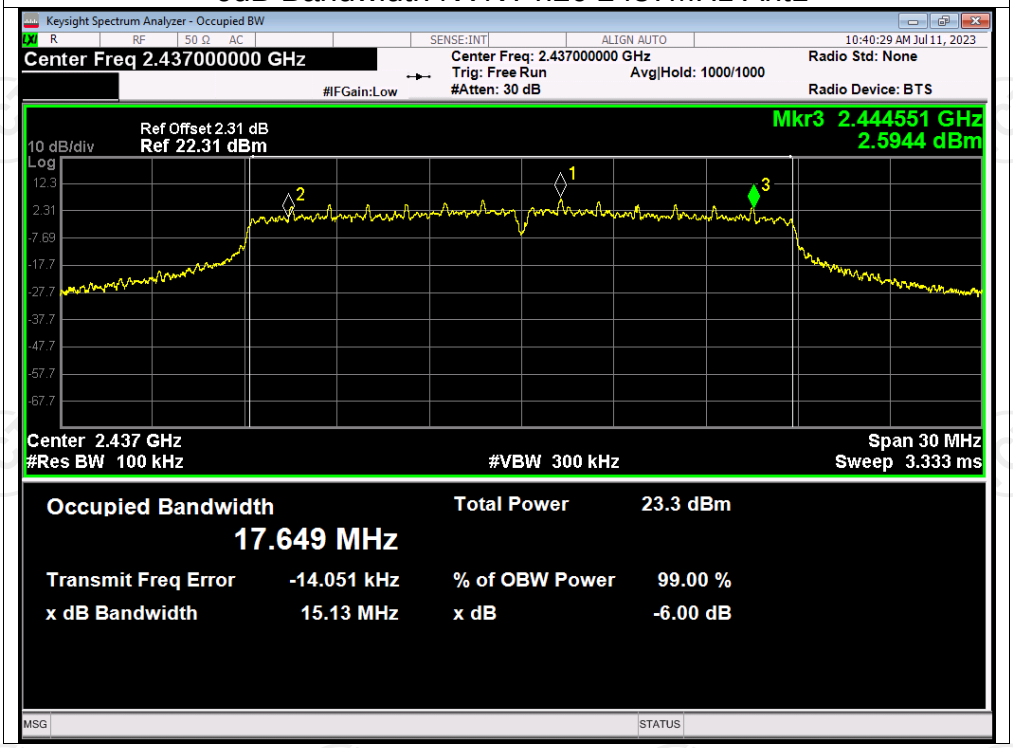
-6dB Bandwidth NVNT g 2462MHz Ant1



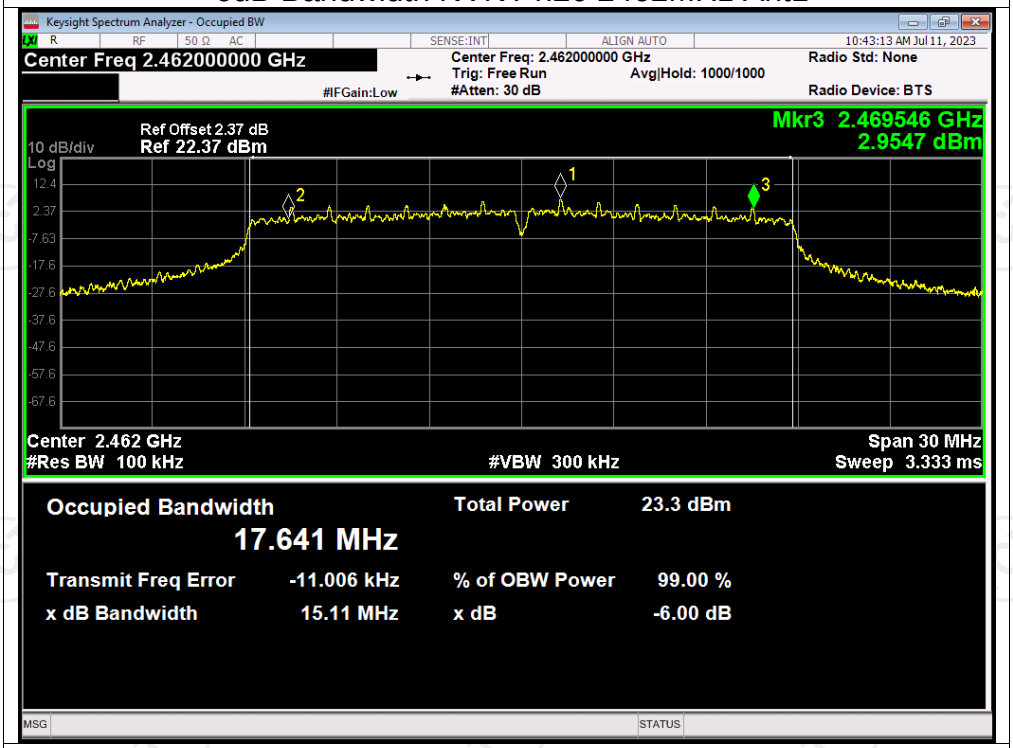
-6dB Bandwidth NVNT n20 2412MHz Ant1



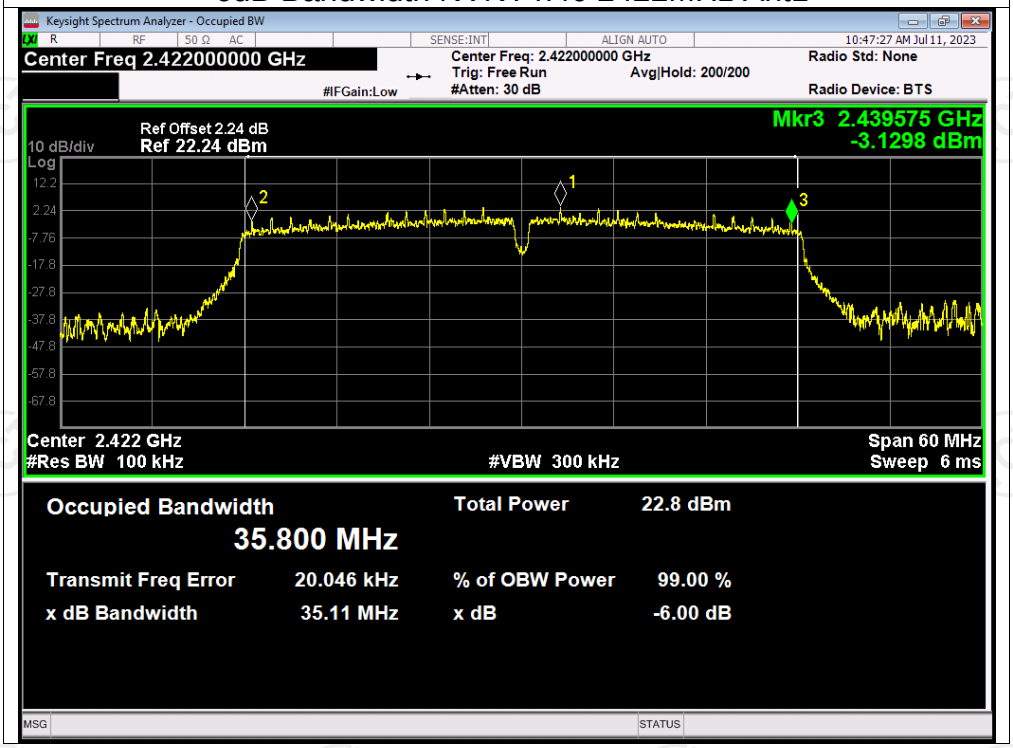
-6dB Bandwidth NVNT n20 2437MHz Ant1



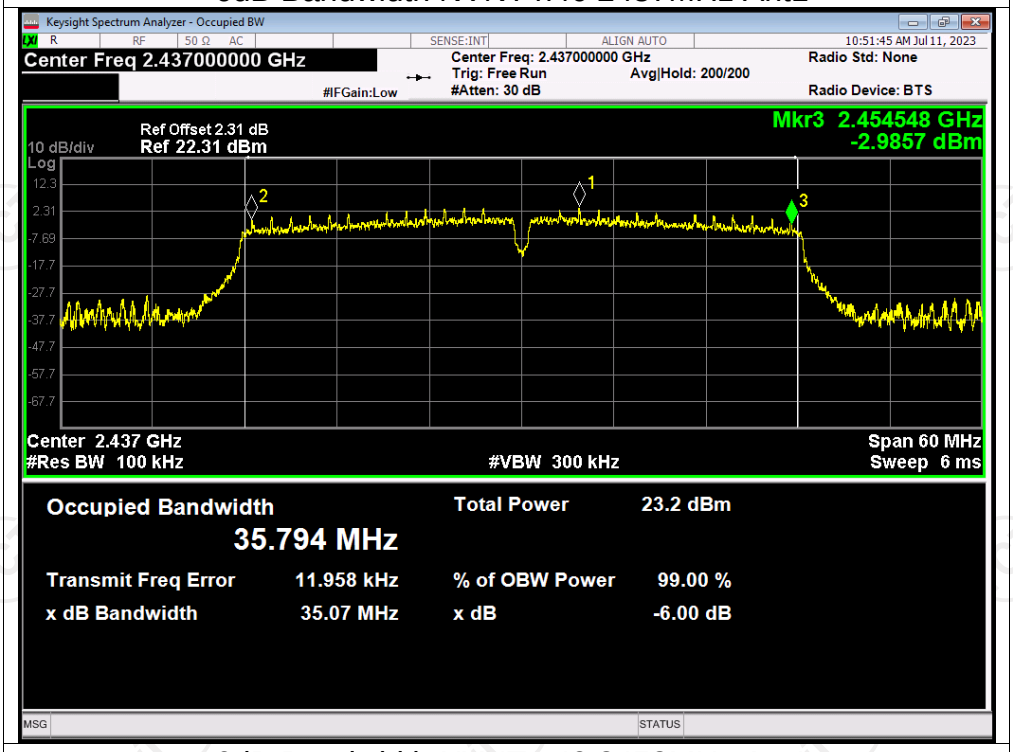
-6dB Bandwidth NVNT n20 2462MHz Ant1



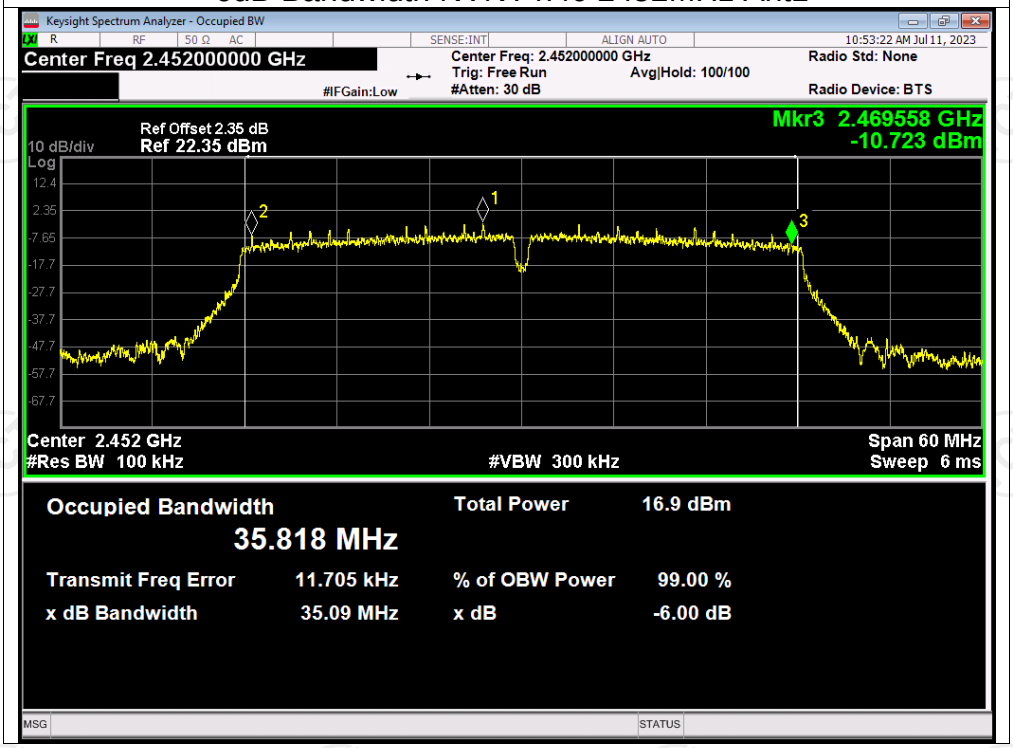
-6dB Bandwidth NVNT n40 2422MHz Ant1



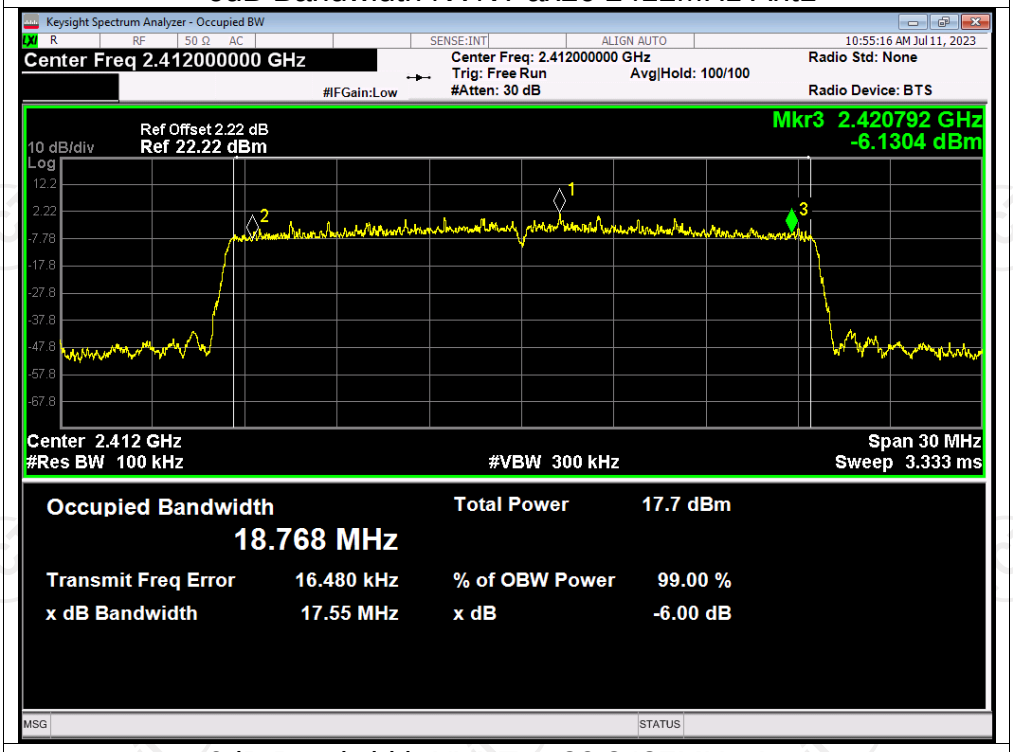
-6dB Bandwidth NVNT n40 2437MHz Ant1



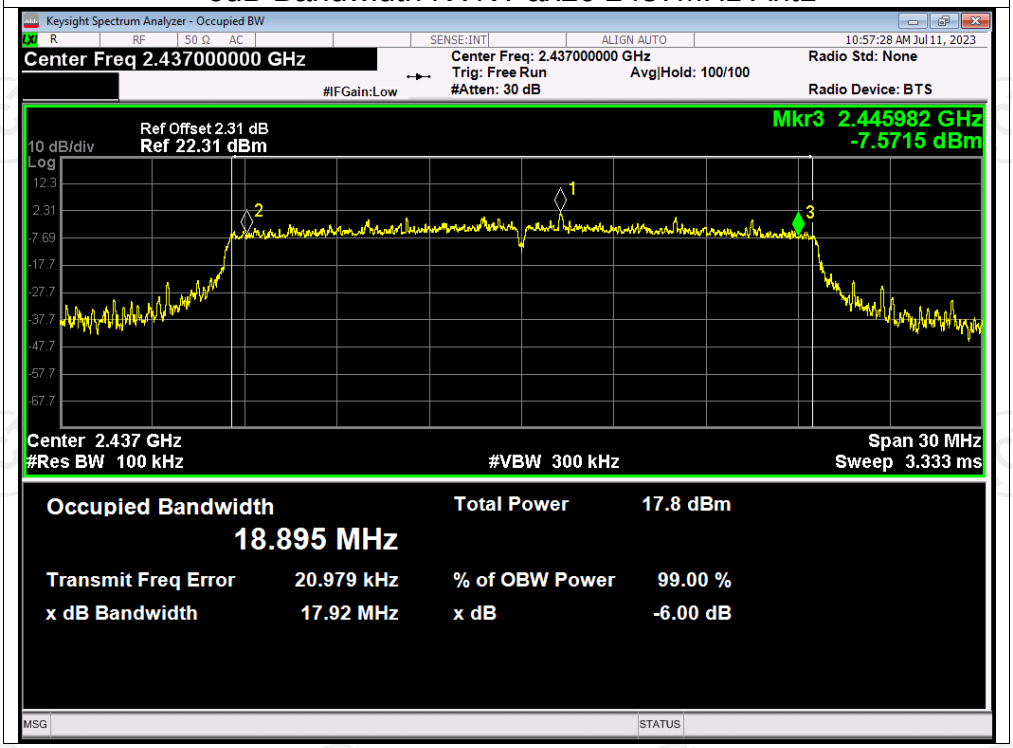
-6dB Bandwidth NVNT n40 2452MHz Ant1



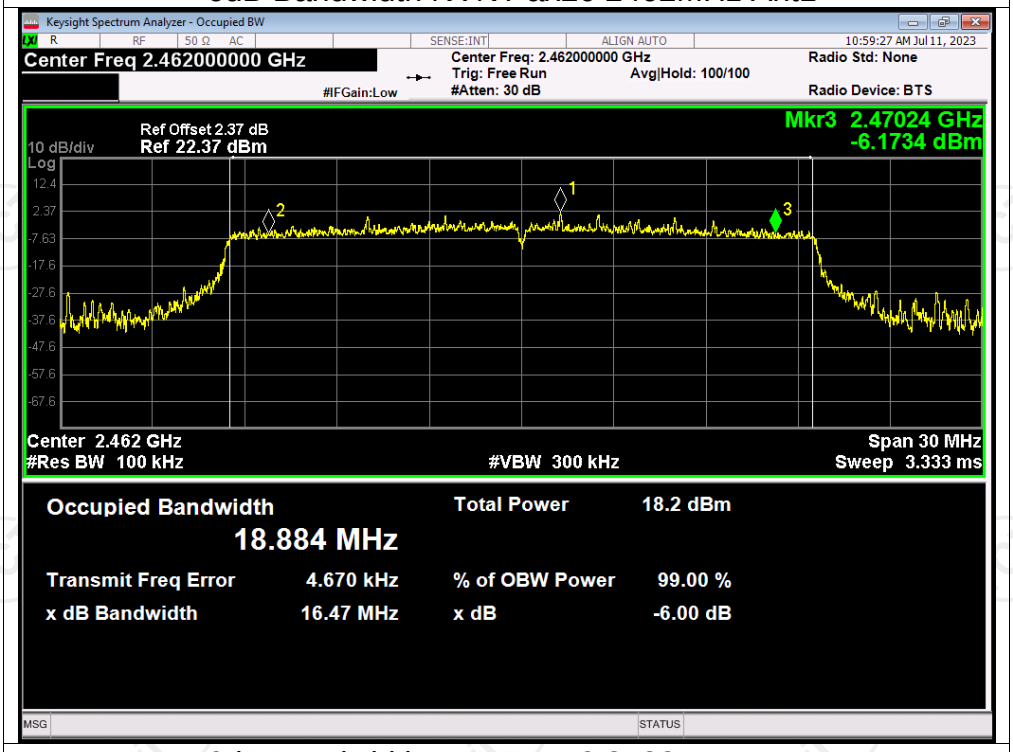
-6dB Bandwidth NVNT ax20 2412MHz Ant1



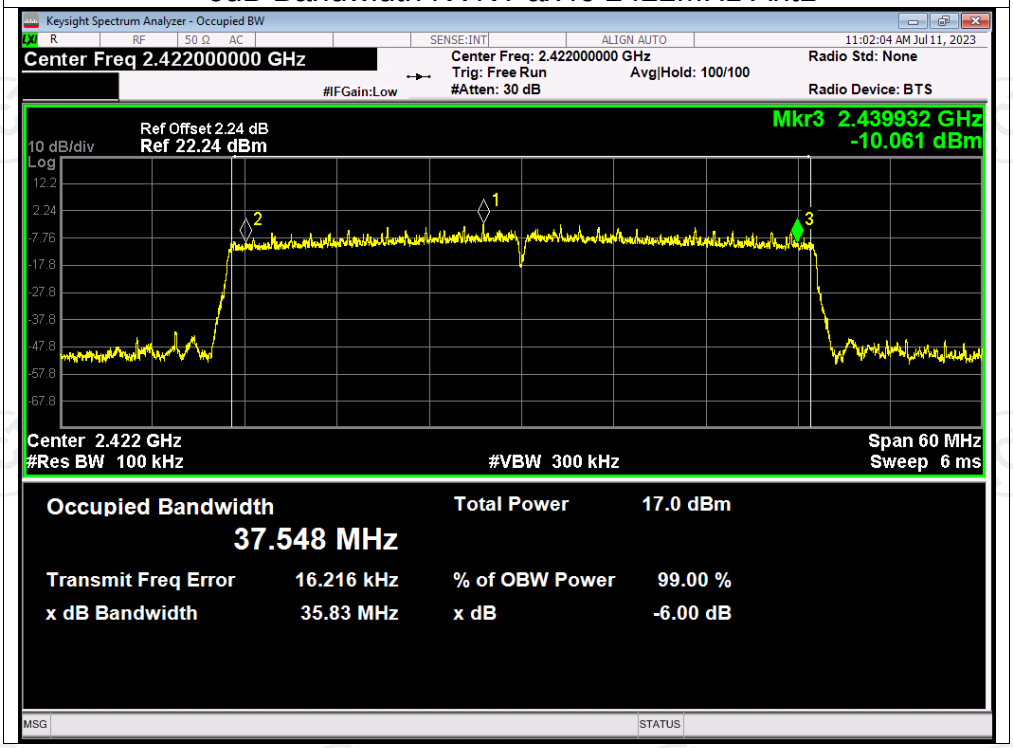
-6dB Bandwidth NVNT ax20 2437MHz Ant1



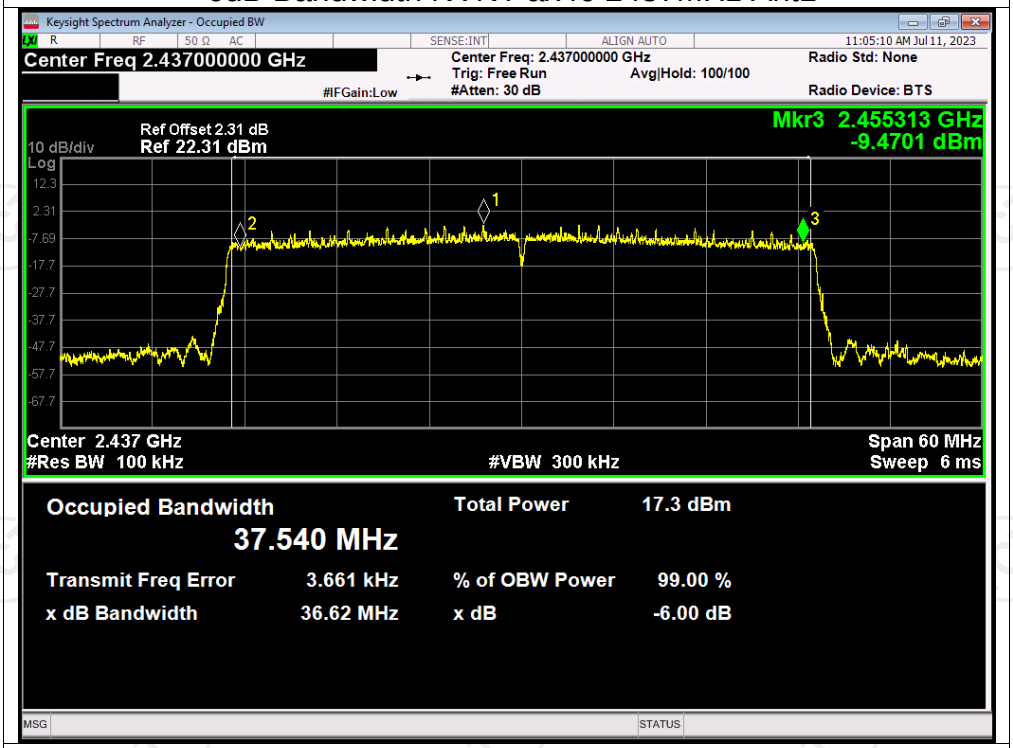
-6dB Bandwidth NVNT ax20 2462MHz Ant1



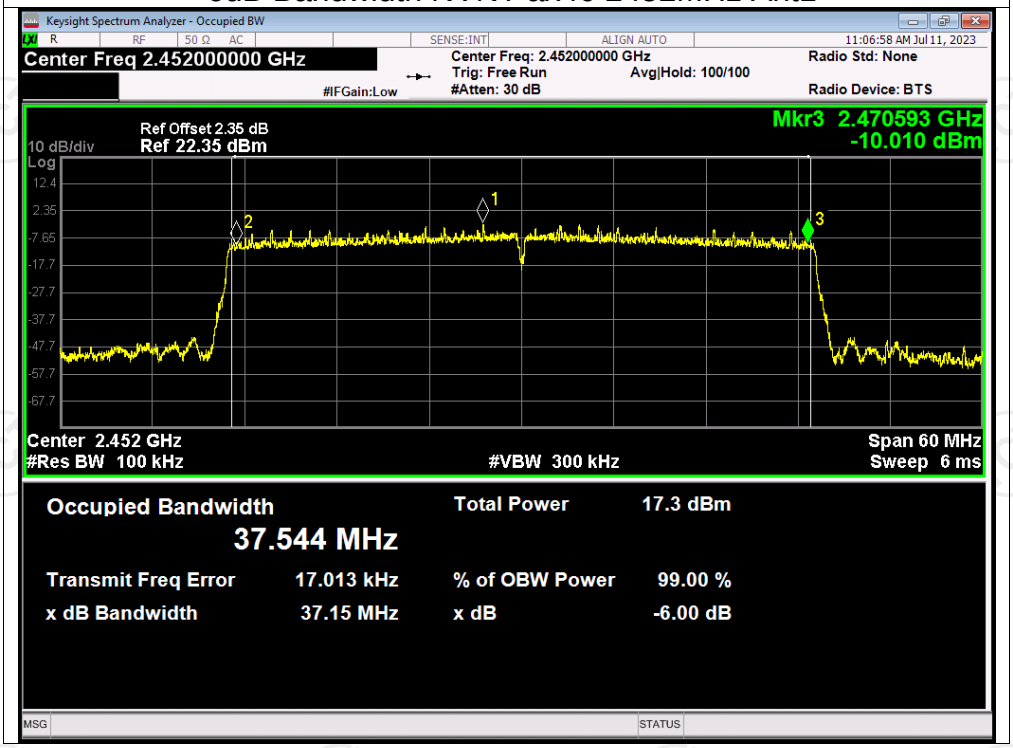
-6dB Bandwidth NVNT ax40 2422MHz Ant1



-6dB Bandwidth NVNT ax40 2437MHz Ant1



-6dB Bandwidth NVNT ax40 2452MHz Ant1

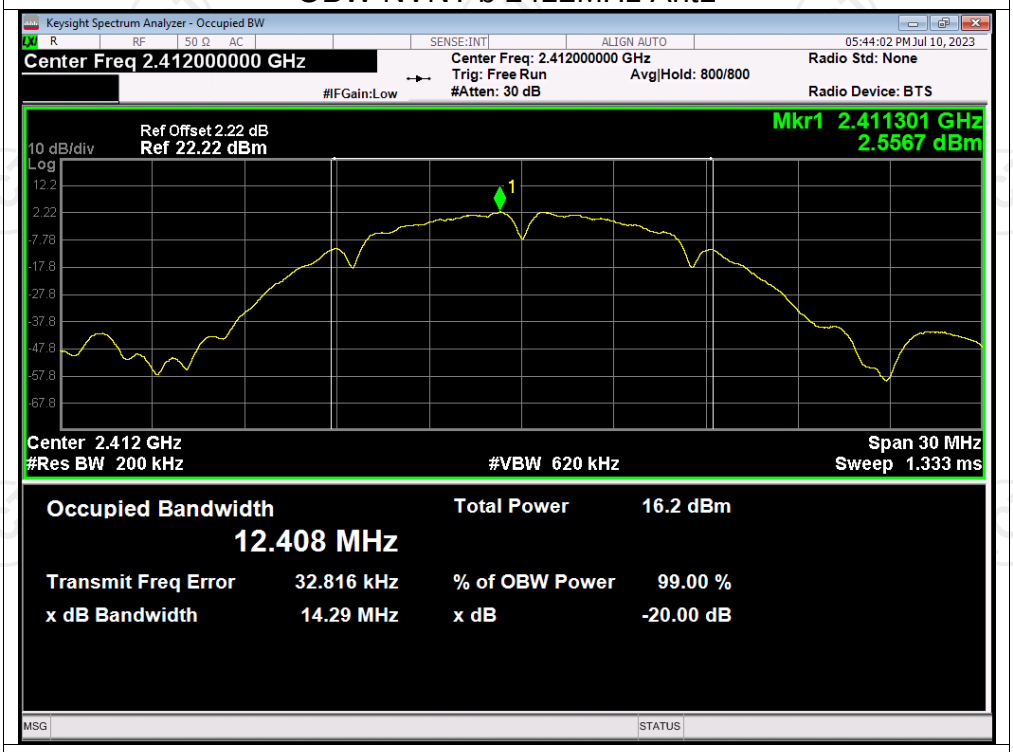


Occupied Channel Bandwidth

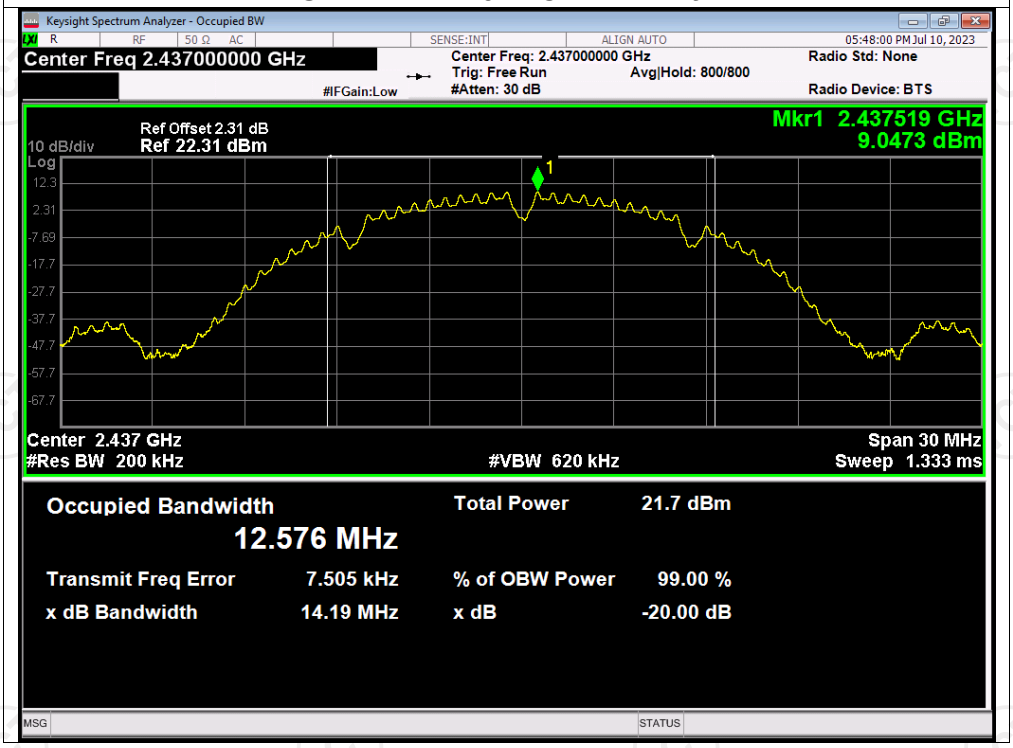
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.408
NVNT	b	2437	Ant1	12.576
NVNT	b	2462	Ant1	12.522
NVNT	g	2412	Ant1	16.455
NVNT	g	2437	Ant1	16.971
NVNT	g	2462	Ant1	16.935
NVNT	n20	2412	Ant1	17.506
NVNT	n20	2437	Ant1	17.836
NVNT	n20	2462	Ant1	17.821
NVNT	n40	2422	Ant1	35.974
NVNT	n40	2437	Ant1	35.938
NVNT	n40	2452	Ant1	35.950
NVNT	ax20	2412	Ant1	18.756
NVNT	ax20	2437	Ant1	18.918
NVNT	ax20	2462	Ant1	18.944
NVNT	ax40	2422	Ant1	37.610
NVNT	ax40	2437	Ant1	37.537
NVNT	ax40	2452	Ant1	37.669

Test Graphs

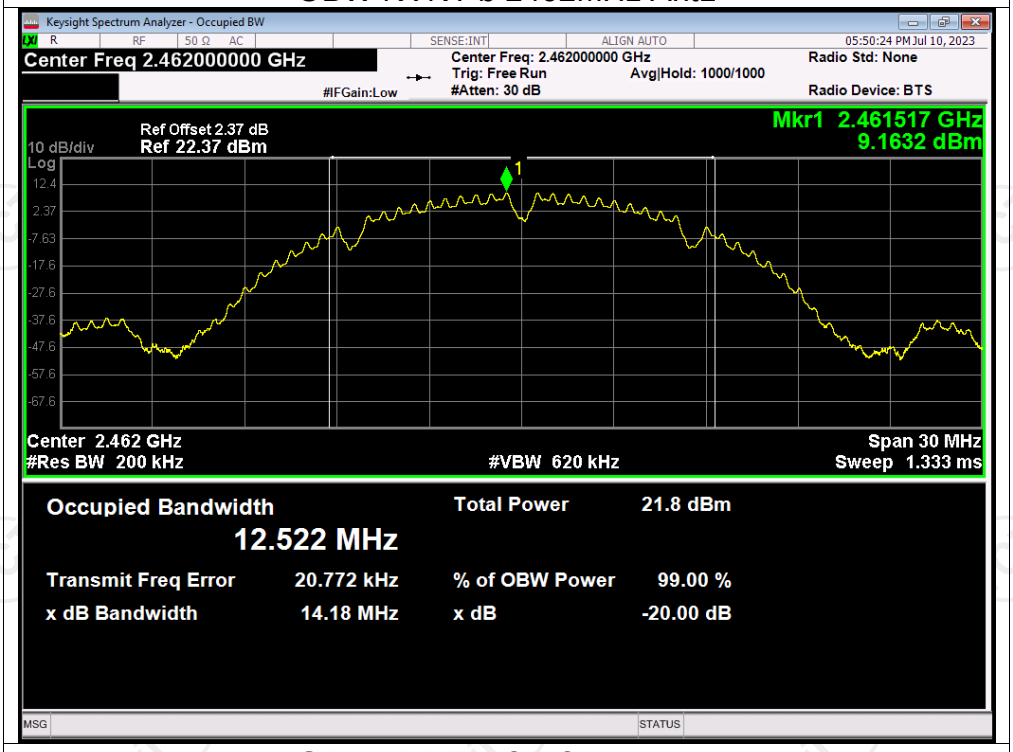
OBW NVNT b 2412MHz Ant1



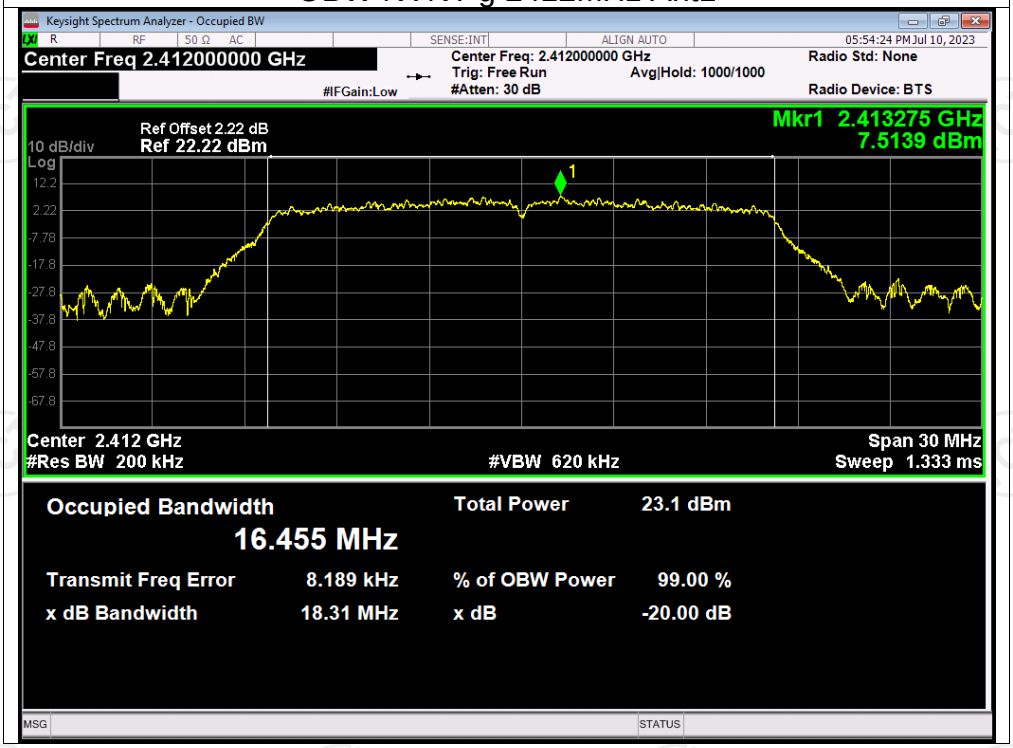
OBW NVNT b 2437MHz Ant1



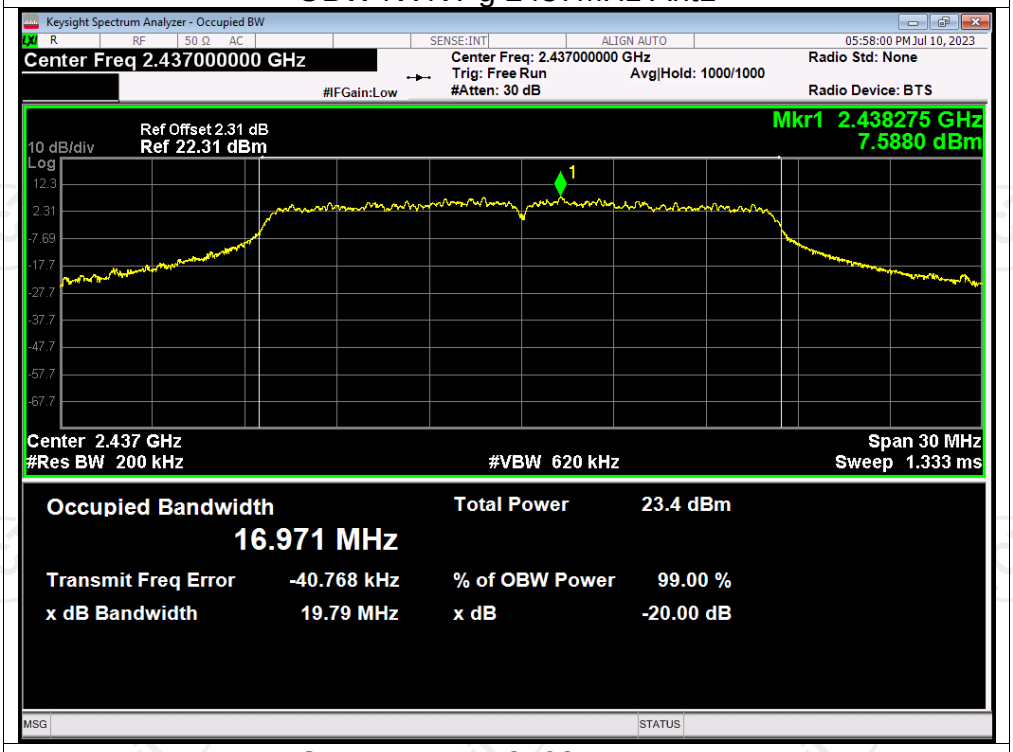
OBW NVNT b 2462MHz Ant1



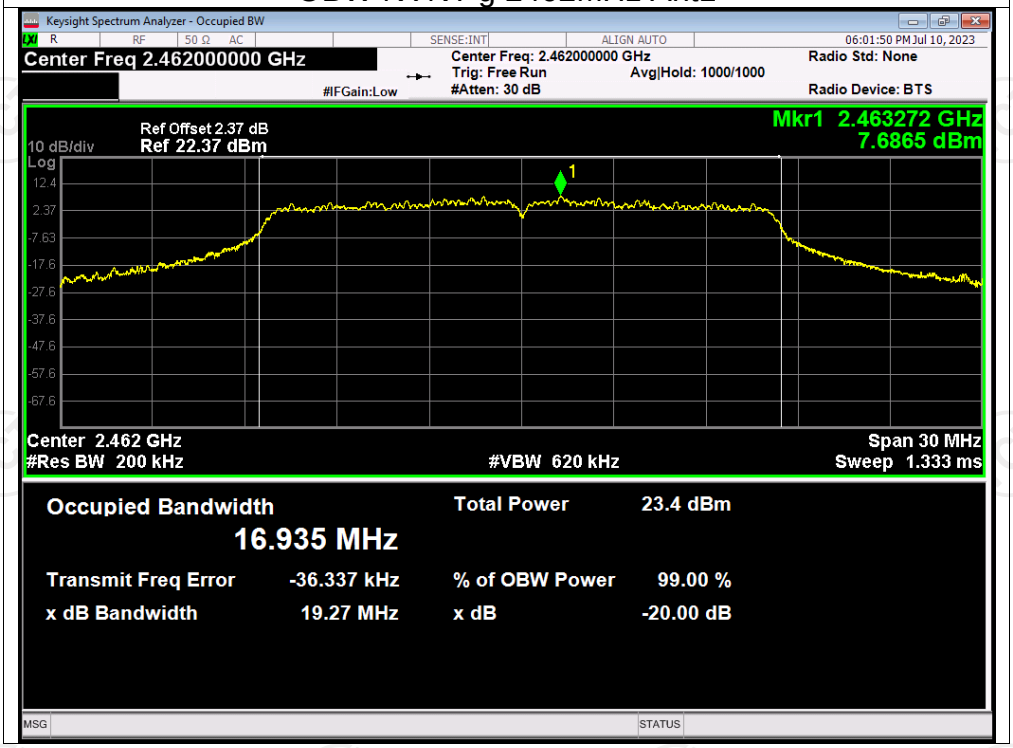
OBW NVNT g 2412MHz Ant1



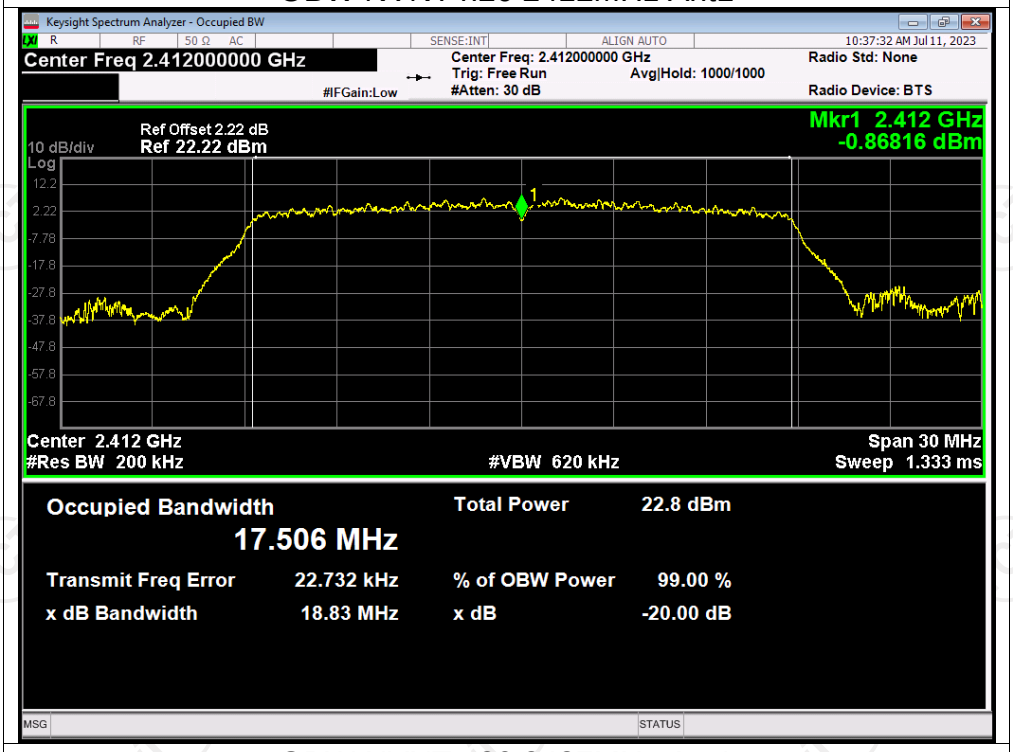
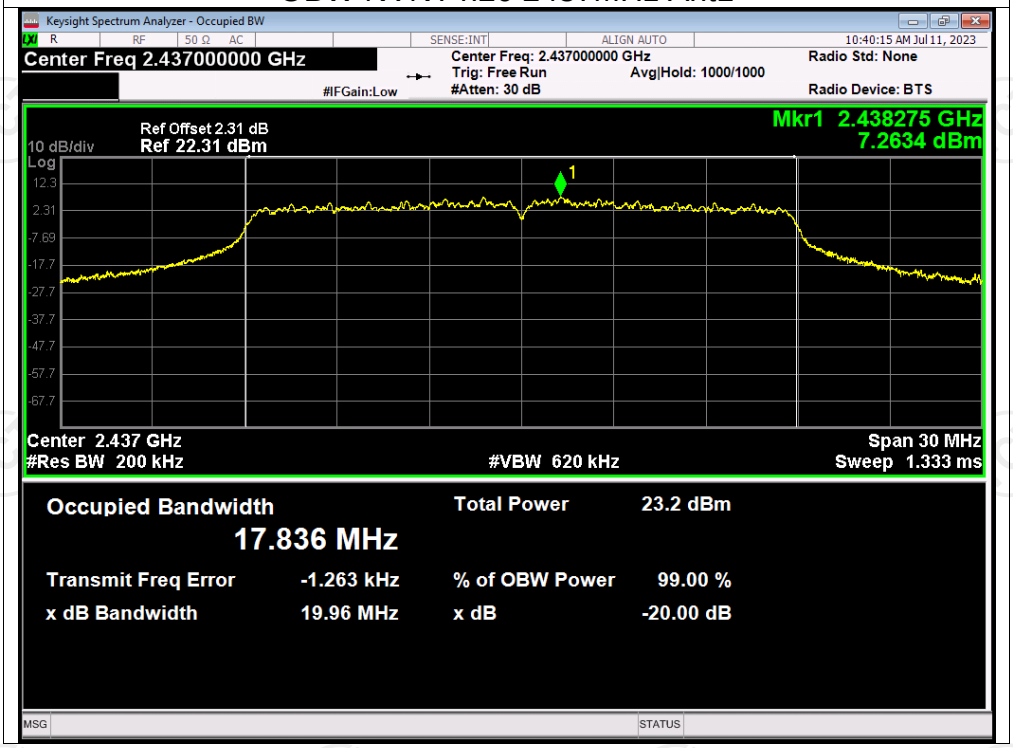
OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1



OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1